Response®
Electronics Limited

SA5 E
36 Zone Wirefree Alarm System with Voice Dialler

Installation and Operating Instructions

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Kit Contents

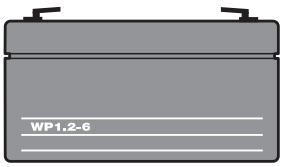
Alarm Components:

1 x 36 Zone LCD Control Panel
2 x PIR Movement Detector
2 x Magnetic Contact Detector
1 x Remote Control
1 x External Solar Siren

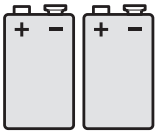
Also included:

Power Supply Adaptor
Telephone Connection Lead
Installation & Operating Instructions
Fixing pack

Batteries included:

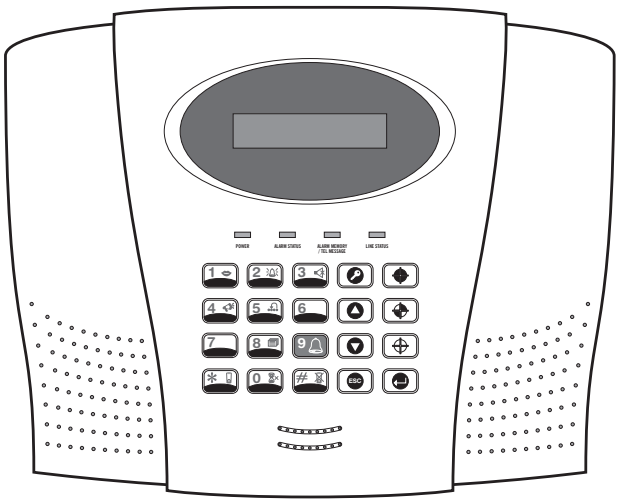


x 3
6V/1.2Ahr Sealed lead acid battery *(for Control Panel and External Solar Siren)*

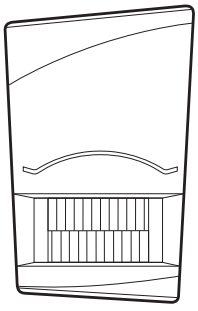


x 2
9V PP3 Alkaline battery *(for PIR Movement Detectors)*

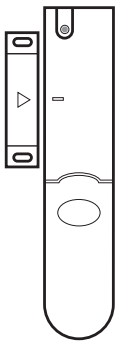
x 5
3V CR2032 Lithium cells *(for Remote Control and Magnetic Contact Detectors)*



Control Panel
(SA5CU E)

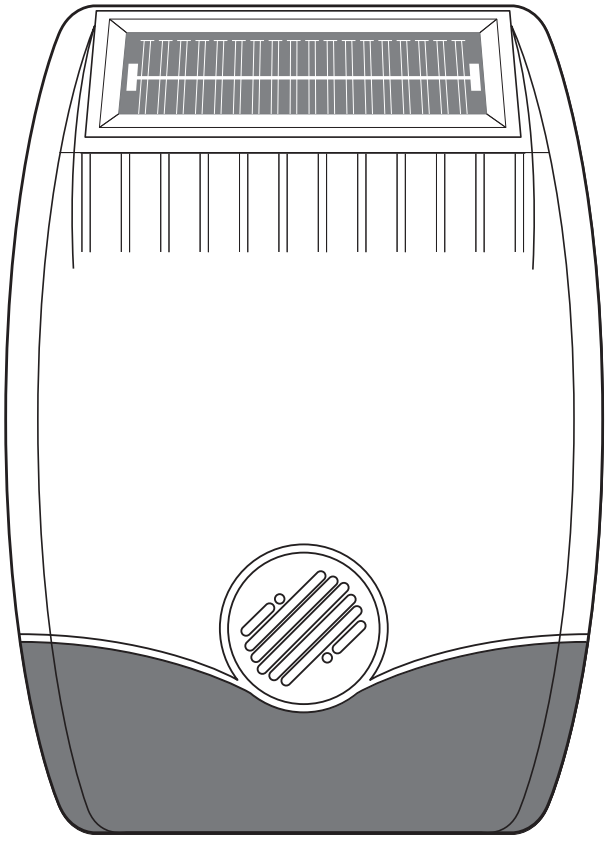


PIR Movement Detector
(SAP E)



Magnetic Contact Detector
(SAM E)

Remote Control
(SAR E)



External Solar Siren
(SASS E)

Important: *Please check all items listed above are included in the package.*

Note: Diagrams are for illustration purposes only actual appearance may vary.

Introduction and Overview

Multiple Users

The system allows for up to 6 User Codes and a Master User Code to be configured. This allows the system Event Log to maintain a record of which users have armed and disarmed the system. Each user will have a different User Code. In addition a 4 second voice recorder facility enables the users name to be recorded for use with the Latch-Key facility.

Only the Master User has access to the programming functions and is able to configure the system.

Note: Any Remote Control Units on the system will be recorded as User 6.

System Arming

The system has a full 'Arm' and two 'Part-Arm' modes. ARM will 'Arm' all zones while the 'Part-Arm' modes will only arm the zones that are enabled for the particular part-arm mode.

For example:
The system could be configured such that during night time, 'Part-Arm 1' would arm only zones protecting the lower floor and outbuildings leaving the upper floor free for movement without triggering the alarm.

During the day while the property is occupied 'Part-Arm 2' would arm only the zones protecting the outbuildings. However, when the property is left un-occupied, the full 'Arm' mode will arm all zones to protect the entire property, (i.e. upper and lower floors and outbuildings).

Zones

The system incorporates 32 wireless Alarm Zones for the connection of the system detectors that are used to independently monitor different areas of the property. In addition to standard intruder protection, each zone may also be configured to operate in one of four other modes:

- **24-hour Intruder mode**
  provides 24 hour intruder protection for areas where continuous monitoring is required, (e.g. gun cupboards).
- **Fire mode**
  provides 24 hour monitoring of any Fire/Smoke detectors incorporated into the system.
- **Test mode**
  allows a zone to be monitored while the system is armed. If a detector on a test zone is triggered an entry will be recorded in the Event Log but an alarm will not occur.

In addition there is the facility to connect 4 hard wired zones to the Control Panel, each of which is fully configurable with the same features as the wirefree zones (1-32).

Entry/Exit Delay

When the system is armed with the Exit-Delay enabled, no alarm signal from any detector on an active zone will be able to initiate an alarm until the Exit-Delay has expired. This enables the system to be armed from within the property and allows time for the user to exit the property without triggering an alarm. If the Exit-Delay is disabled then detectors on active zones will immediately be able to initiate an alarm as soon as the system begins to arm.

The system Exit-Delay may be configured for between 10 to 250 seconds or disabled completely.

If a detector on a zone with its Entry-Delay enabled is triggered, then an alarm condition will not occur until the Entry-Delay period has expired. This allows time for the user to re-enter the property and disarm the system before an alarm condition occurs. Generally only the zones on the main entry route to the property will be configured with an Entry-Delay. The remaining zones would be configured with their Entry-Delay disabled allowing them to immediately initiate an alarm a detector on the zone is triggered.

The Entry-Delay for each zone may be configured for between 10 to 250 seconds or disabled completely.

Quick Set

The system may be fully armed in 5 seconds using the quick set facility, overriding the programmed exit-delay. This is useful for setting the system at night when the exit-delay warning beep will be silenced after just a few seconds.

Final Exit Set Zone

Triggering a detector on a Final Exit zone during the exit-delay will cause the delay to reset to 5 seconds with the system arming 5 seconds later.

Walk Through Zone

This feature may be used for detectors located on the main entry route to the Control Panel. When the

system is armed and a zone configured as a 'Master Walk Through' zone is triggered, the zones Entry-Delay will start. Any zones configured as 'Slave Walk Through' will be disabled to allow free access to the Control Panel to disarm the system before the Entry-Delay expires an alarm occurs.

If access is gained via a zone that is not configured as 'Master Walk Through', the 'Slave Walk Through' zones will operate as normal according to their programmed Entry-Delay setting.

Note: A zone set as a 'Master Walk Through' zone must be configured with an Entry-Delay.

Omit Zone

A zone may be temporarily omitted when the system is armed using the Omit feature. When the system is next disarmed any zones set to Omit will be cancelled.

Zone Lockout

If a detector on an active zone is triggered while the system is armed an alarm condition will occur. After the programmed alarm duration has expired the alarm will stop and the system will automatically reset. Subsequent detectors triggered will again initiate an alarm condition. If a single zone initiates an alarm condition more than three times then that zone will be 'Locked Out' and any further alarm signals from that zone will be ignored until the system is disarmed.

Note: The 'Zone Lockout' feature can be disabled if required.

Event Log

The Control Panel incorporates a memory capable of storing the last 50 system events. This enables the user to see which user has Armed/Disarmed the system and if and when any alarms occurred. The time, date and details of the event type will be recorded for each system event.

Chime

Chime is a low security facility for use when the system is in Standby mode. If the Chime feature is ON, and a detector on a zone that has its Chime function enabled is triggered, the internal sounder will produce a low volume warning tone. A typical use of the Chime function would be to warn that a door or particular area has been accessed.

Voice Dialler

If the Voice Dialler is enabled and an alarm condition occurs, the system will call for help using your recorded alarm messages and up to four telephone numbers.

When an alarm condition occurs, the telephone voice dialler (if enabled) will call the first enabled number in the calling sequence and replay the recorded alarm messages for the configured 'Play Time'. The recipient must acknowledge the message by pressing the [*] button on their telephone keypad. If the call is unanswered or an acknowledgment is not received then the next active number in the dialing sequence will be called. The dialler will continue calling each number in turn until either all numbers in the sequence have been dialed the set number of times or the sequence is cancelled/acknowledged by the recipient.

Digital Dialler

As an alternative to the Voice dialler the system may be configured to interface with a central monitoring station.

Latch Key

When the system is disarmed the Latch-Key facility, if enabled, will call the first latchkey phone number and replay the user message (recorded under user setup) for the set 'Play Time'. The recipient must acknowledge the message by pressing the [*] button on the telephone keypad. If the call is unanswered or an acknowledgment is not received then the second latchkey phone number will be called. The voice dialler will continue calling each number in turn until each number has been dialed the set number of times or the sequence is cancelled/acknowledged by the recipient.

For example, the latchkey facility is useful to inform parents that a child has returned from school and disarmed the system.

Answerphone

The Control Panel includes an answer-phone facility. The answerphone will record and store a maximum of 6 messages with each message being limited to a 30 seconds duration.

Messages may be retrieved either direct from the Control Panel or by dialing into the system from a phone.

Voice Memo

In addition it is also possible to record messages at the Control Panel using the 'Voice-Memo' facility. Each voice-memo message is limited to a maximum duration of 30 seconds and counts as an answer phone message.

Remote System Control

It is possible to dial into the system via the telephone to interrogate the system status and to have basic control over the system, (e.g. to Arm and Disarm the system). You may also activate the microphone on the control panel to Listen-In to what is happening in the protected property.

Answer phone and Voice-memo messages may also be accessed remotely.

Tamper Protection

All system devices (except Remote Control Units) incorporate Tamper protection features to protect against unauthorized attempts to interfere with the device. Any attempt to remove the battery cover from any device (except a Remote Control) or to remove the Solar Siren or Control Panel from the wall will initiate an alarm condition even if the system is Disarmed (unless the system is in Test or Programming modes).

Jamming Detection

In order to detect any attempts to illegally jam the radio channel used by your alarm system, a special jamming detection function is incorporated into the Control Panel and also on some Solar Siren models. If this feature is enabled, and the radio channel is jammed continuously for 30 seconds, when the system is armed, the Solar Siren will emit a pre-alarm series of rapid bleeps for 5 seconds. If the jamming continues for a further 10 seconds or more a full alarm condition will occur. In addition if the system is jammed for more than three periods of 10 seconds in a 5 minute interval, this will also generate a Full Alarm condition.

The jamming detection features in the Control Panel and Solar Siren operate independently.

The Jamming Detection circuit is designed to permanently scan for jamming signals. However, it is possible that it may detect other local radio interference operating legally or illegally on the same frequency. If you are planning to operate the Jamming Detection feature we recommend that you wait at least 30 days before activating this feature, this will allow time for you to become familiar with the operation of your system.

Battery Monitoring

All devices powered by non-rechargeable batteries incorporate a battery level monitoring feature which warns when the battery status is low.

In addition the Control Panel will also indicate a low battery status on any PIR Detector or Magnetic Contact Detector on the System.

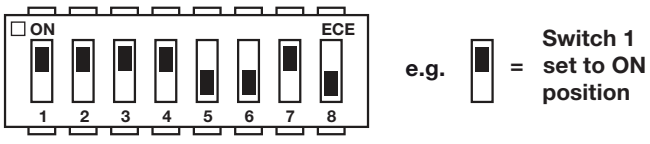
Batteries on any device indicating a low battery status must be replaced immediately.

System House Code

In order to prevent any unauthorized attempt to operate or disarm your system, you must set your system to accept radio signals only from your own devices. This is done by setting a series of eight miniature (DIP) switches in all devices (except the Control Panel) to the same ON/OFF combination (the House Code) selected by the user/installer. The Control Panel is then programmed to operate only with devices set to this House Code.

All Detectors and Remote Control Unit(s) must be set with the same House Code in order for the system to operate correctly.

Inside the Siren, Detectors and Remote Control Unit is a series of 8 DIP switches.



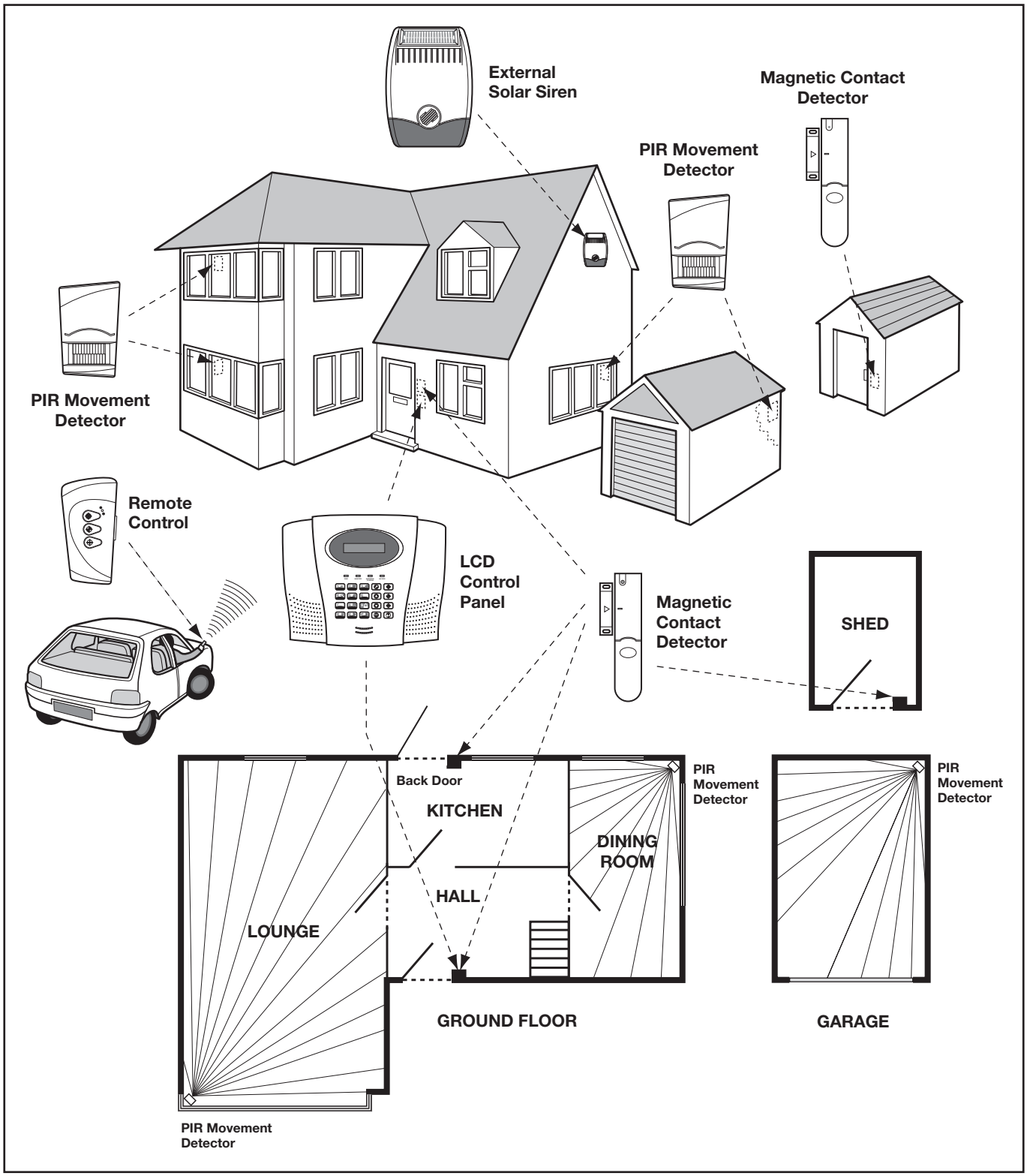
The House Code is set by moving each of the 8 switches in each device to the same randomly selected ON/OFF sequence. When setting the DIP switches, ensure that each switch 'clicks' fully into position. Use the tip of a ballpoint pen or a small screwdriver to move each switch in turn.

Note: It is recommended that the system House Code is always reset to a code other than the factory default.

Planning and Extending your Wirefree Alarm System

The example below shows a typical property incorporating the suggested positions for the Control Panel, PIR and Magnetic Detectors for optimum security.

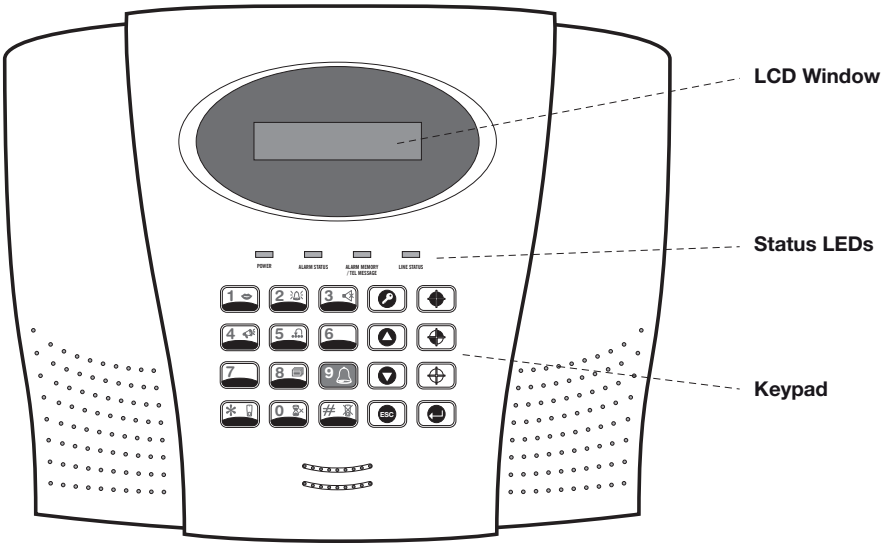
Use this as a guide for your installation in conjunction with the recommendations contained in this manual for planning your intruder alarm system.



Before attempting to install your Alarm System it is important to study your security requirements and plan your installation.

The alarm system may be extended at any time to provide even greater protection by fitting additional devices to meet your personal security needs.

Control Panel



External view of Control Panel

Positioning the Control Panel

When choosing a suitable location for the Control Panel, the following points should be considered.

1. The Control Panel should be located in a position out of sight of potential intruders and in a safe location, but easily accessible for system operation.
2. The Control Panel should be mounted on a sound flat surface to ensure that the rear tamper switch on the Control Panel is closed when the Panel is mounted. The Control Panel should be mounted at a convenient height of between 1.5 and 2m and in a position where it will be seen each day.

   Note: If small children are in the household, a further consideration should be given to keeping the units out of their reach.
3. It is recommended that the Control Panel should be positioned such that the Exit/Entry tone (emitted by the Control Panel) can be heard from outside the property.
4. The Control Panel should be mounted within a protected area so that any intruder cannot reach the Control Panel without opening a protected door or passing through an area protected by a PIR Detector when the system is armed.
5. The Control Panel must be located within reach of a mains socket.
6. If the telephone voice dialler is to be used then the Control Panel will need connecting to a convenient telephone point.

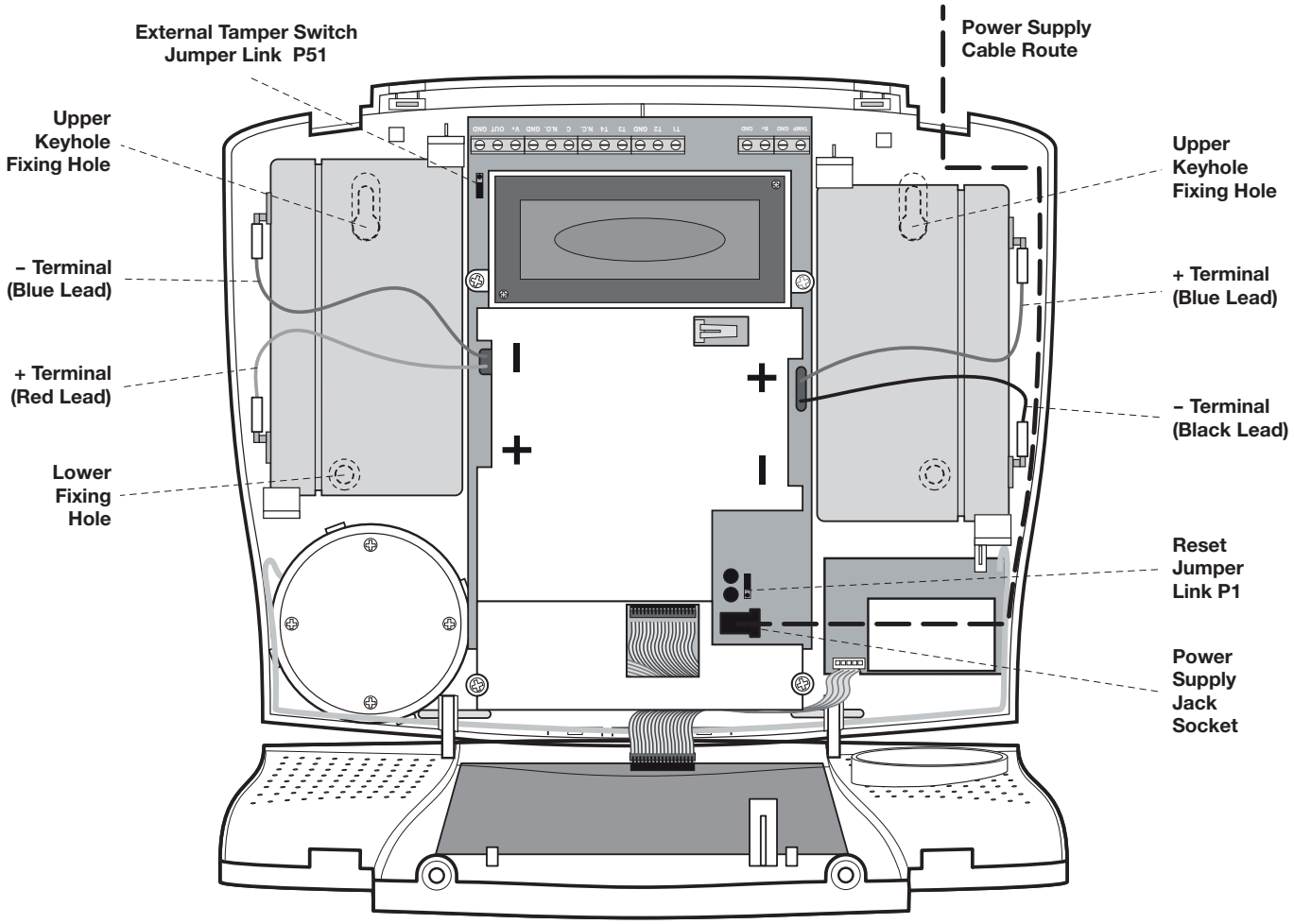
   Note: It is recommended that the telephone connection lead is not extended beyond 5m before connecting to a telephone master or secondary outlet.
7. Do not locate the Control Unit closer than 1m to any large metallic object, (e.g. mirrors, radiators, etc) as this may affect the radio range of the Control Panel.

Installing the Control Panel

1. Undo the two captive fixing screws on top of the panel and open the cover. The cover is hinged along the bottom edge.
2. Unclip and remove the two back-up batteries on either side of the panel.
3. Hold the Control Panel in position on the wall and mark the positions of the four fixing holes. Remove the Panel and drill four 5mm holes and fit the 25mm Wall Plugs.

   Note: The wall plugs supplied with the product are not suitable for plasterboard walls, if mounting the Control Panel onto plasterboard use proprietary wall plugs.

   Important: Do not drill the fixing holes with the Control Panel in position; as the resulting dust and vibration may damage the Control Panel's internal components and invalidate the guarantee.



Inside view of Control Panel

4. Fit two 18mm No. 4 screws into the top holes until almost fully home and hang the Control Panel over the screws using the two keyhole slots in the top corners of the panel casing.

5. Route the cable from the Power Supply Unit up behind and on the right hand side of the Control Panel and connect the plug to the DC power socket in the panel. Ensuring that the cable is not trapped between the Control Panel and the wall.

6. Fix the Control Panel to the wall using two 18mm No. 4 screws in the lower two fixing holes in the Control Panel and tighten the upper fixing screws until they just grip the casing. Do not over tighten the fixing screws or this may damage the casing.

7. Ensure that the 'Reset' and the 'Hard-Wired Siren tamper detect' jumper links are set in the OFF position.

8. Connect battery leads to both back-up batteries and refit batteries.

   Battery 1 (left): Red lead to **+** battery terminal
   Blue lead to **–** battery terminal

   Battery 2 (right): Blue lead to **+** battery terminal
   Black lead to **–** battery terminal

   Important: Take care when connecting battery leads to the batteries as connecting incorrectly could damage the batteries or the Control Panel.

   Note: The Power LED may flash to indicate that the unit is being operated from the back-up batteries and that mains supply is not present.

9. If fitted, remove the plastic film covering the LCD display and on the display window on the cover.

10. Close the lid of the Control Panel and tighten the captive fixing screws.

11. Plug in and switch ON the Power Supply Unit, (the Power LED should illuminate).

12. If required, connect the Control Panel to the telephone line using the cable supplied by inserting small RJ11 plug into socket marked LINE located on the bottom edge of the Control Panel.

    Connect the BT plug on the other end of the lead to an appropriate telephone outlet.

    If the cable supplied is not long enough to reach a suitable phone point then it will need extending using a coupler and extension lead (not supplied).

Note: If the Panel Tamper alarm sounds during the installation reset the alarm by pressing:

, 1 2 3 4 ,

on the Control Panel Keypad.

Setting the Control Panel House Code

With the unit in Standby mode (Power LED only illuminated).

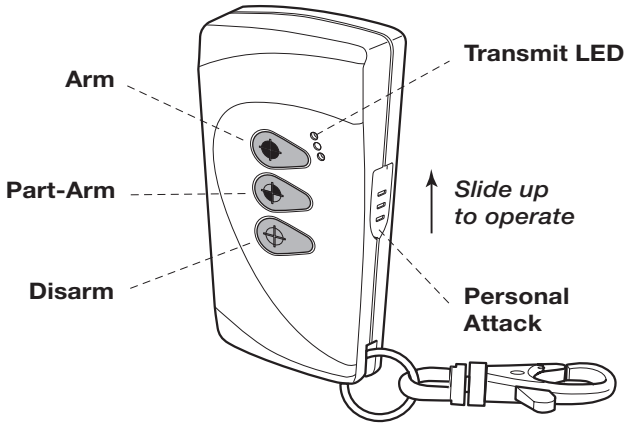
1. Press , 1 2 3 4 ,
   to put the system into Programming mode.
   '1. USER SETUP' will be displayed.
2. Use the and buttons to scroll through the menu until **'2. SYSTEM SETUP'** is displayed.
   Press and **'2-1 Learn House Code'** will be displayed.
   Press again to set the Control Panel to receive the House code. **'DIP SW 12345678 & H Code: xxxxxxxx'** will be displayed.
3. With the required House Code already configured on the Remote Control, press the button on the Remote Control.
   When the Control Panel receives the signal from the Remote Control the Display will change to show the received house code on lower line of the display beneath the corresponding DIP switch numbers (1-8).
4. Press , ESC , ESC
   to return to Standby mode.

Testing the Control Panel and Remote Control

1. Press , 1 2 3 4 ,
   to put the system into Test mode.
   'TEST MODE – WALK TEST' will be displayed.
2. Press to activate Walk Test.
   'Walk Test Waiting…' will be displayed.
3. Press the 'ARM' button on the Remote Control. As the key is pressed the Control Panel will beep and the type of the device and button will be shown on the display.
   Press the other buttons on the Remote Control in turn, as each button is pressed the Control Panel will beep and show the button being pressed on the display.
4. Test the range of the Remote Control by pressing the 'DISARM' button on the Remote Control from in and around the property and from all locations where you plan to install detectors. Check that the Control Panel acknowledges the signal from the Remote Control each time the 'DISARM' button is pressed.
5. Press ESC to return to the top level menu of TEST MODE.

Remote Control Unit

The Remote Control Unit is used to Arm, Part-Arm and Disarm the system.



The Remote Control Unit also incorporates a Panic switch. Activating the Panic switch on the side of the Remote Control will immediately initiate a Full Alarm condition whether the system is Armed or Disarmed. The alarm can be cancelled by pressing the 'DISARM' button on the Remote Control or via the Control Panel.

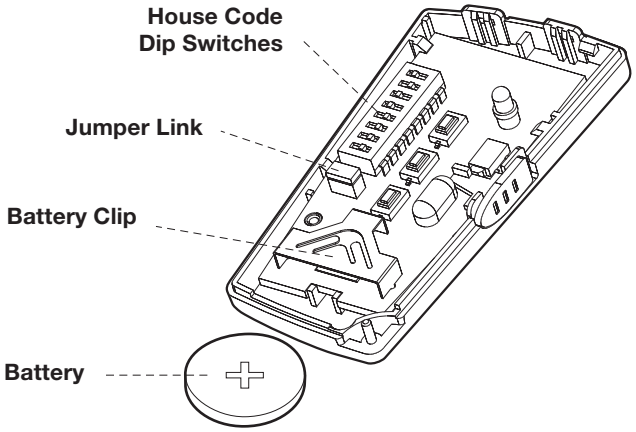
Any number of Remote Control Units can be used with your system, providing they are all coded with the same system House Code.

The Remote Control uses a CR2032 type Lithium cell which under normal conditions will have a typical life in excess of 1 year. Under normal battery conditions the LED on the Remote control will illuminate only when a button is pressed. However, under low-battery conditions this LED will flash every time the button is pressed. When this occurs the battery should be replaced as soon as possible.

Setting the Remote Control

1. Remove the front cover by undoing the small screw on the rear of the Remote Control.
2. Located above the battery is a row of 8 DIP switches. Select and record a random combination of 'ON' and 'OFF' positions for the DIP switches. This will be the system House Code that enables all elements of your transmitters to communicate with the Control Panel.

   Important: The House Code for your system should be changed from the factory default setting.
3. Ensure that the jumper link located immediately below the House Code DIP switches is fitted in position for use with this alarm system.
4. Insert the battery under the clip ensuring that the +v terminal faces upwards away from the PCB.
5. Replace the front cover and fixing screw.



Passive Infrared (PIR) Movement Detectors

PIR Detectors are designed to detect movement in a protected area by detecting changes in infra-red radiation levels caused, for example, when a person moves within or across the devices field of vision. If movement is detected an alarm signal will be generated, (if the system and alarm zone is armed).

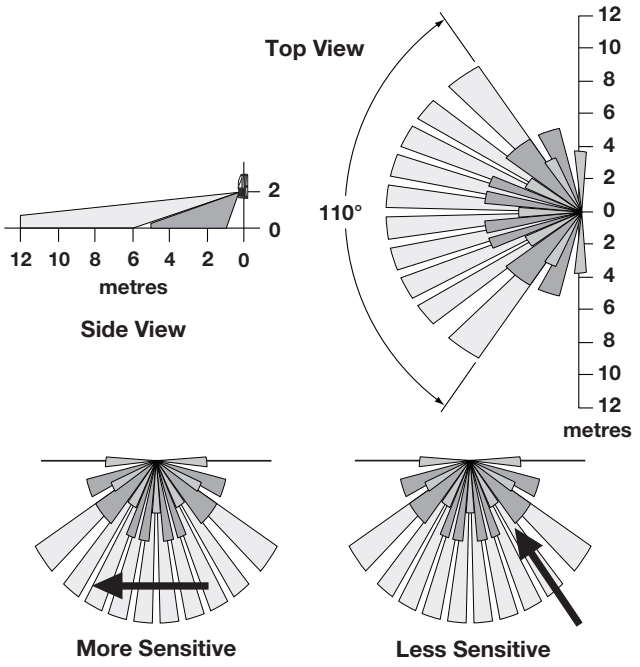
Note: PIR Detectors will also detect animals, so ensure that pets are not permitted access to areas fitted with Passive Infra Red Detectors when the system is armed.

Any number of PIR Detectors can be used with your system, providing they are all coded with the system House Code and are mounted within effective radio range of the Control Panel.

The PIR Detector is powered by a PP3 Alkaline battery which under normal conditions will have an expected life in excess of 1 year. When the battery level drops, with the PIR Detector in normal operation mode and the battery cover fitted, the LED behind the detection window will flash. When this occurs the battery should be replaced as soon as possible.

Choosing a position for the PIR Detector

The recommended position for a PIR Detector is in the corner of a room mounted at a height between 2 and 2.5m. At this height, the PIR Detector will have a maximum range of up to 12m with a field of view of 110°.



The Position of the PCB inside the PIR Detector can be set to 5 different positions to adjust the range of the detection pattern created by the PIR Detector. Setting the PCB in position 3 will reduce the range to approximately 9m, with position 1 providing a range of approximately 6m. The recommended position setting for the PCB is in position 5.

When considering and deciding upon the mounting position for the PIR Detector the following points should be considered to ensure trouble free operation:

1. Do not locate the PIR Detector facing a window or where it is exposed to or facing direct sunlight. PIR Detectors are not suitable for use in conservatories.
2. Do not locate the PIR Detector where it is exposed to ventilators.

3. Do not locate the Detector directly above a heat source, (e.g. fire, radiator, boiler, etc).
4. Where possible, mount the PIR Detector in the corner of the room so that the logical path of an intruder would cut across the fan detection pattern. PIR Detectors respond more effectively to movement across the device than to movement directly towards it.
5. Do not locate the PIR Detector in a position where it is subject to excessive vibration.
6. Ensure that the position selected for the PIR Detector is within effective range of the Control Panel. It is recommended that prior to installation the Detector is set and tested with the Control Panel in Walk Test mode to ensure that they are within effective range.

Note: When the system is Armed, pets should not be allowed into an area protected by a PIR Detector as their movement would trigger the PIR Detector and trigger an alarm.

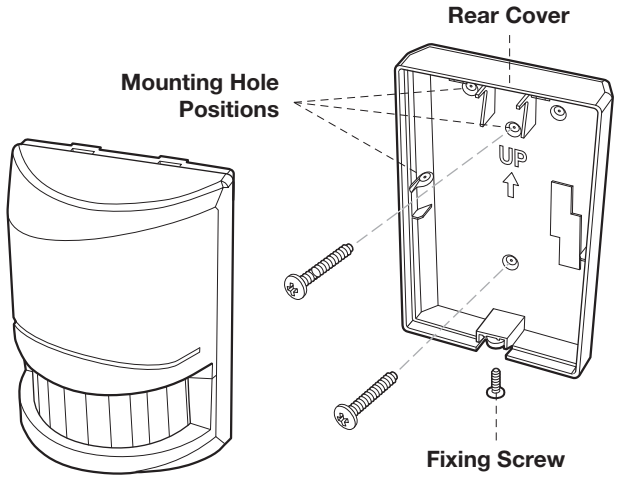
Note: DO NOT fix the PIR Detector to metalwork or locate the unit within 1m of metalwork (i.e. radiators, water pipes, etc) as this could affect the radio range of the Device.

Installing and configuring the PIR Movement Detectors

Ensure that the Control Panel is in Test mode.

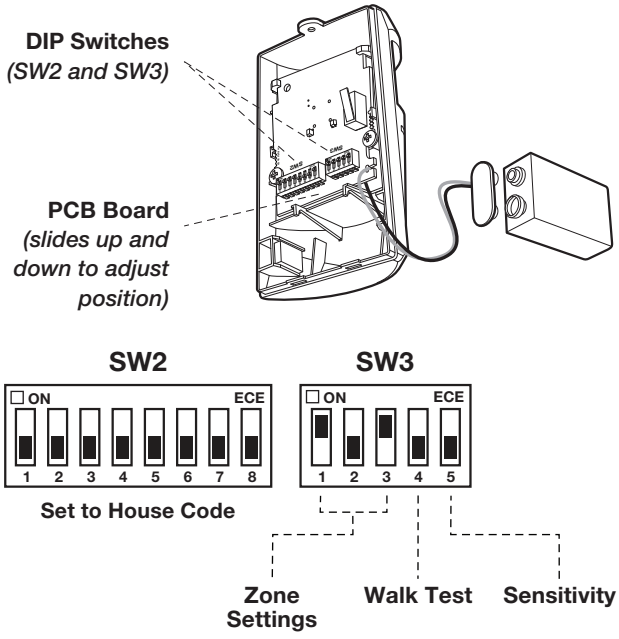
1. Undo and remove the fixing screw from the bottom edge of the PIR Detector. Carefully pull the bottom edge of the Detector away from the rear cover and then slide down to release the top clips.
2. Carefully drill out the required mounting holes in the rear cover using a 3mm drill according to whether the unit is being mounted in a corner or against a flat wall.
3. Using the rear cover as a template, mark the positions of the fixing holes on the wall.
4. Fix the rear cover to the wall using the two 18mm No. 4 screws and 25mm wall plugs, (a 5mm hole will be required for the wall plugs). Do not over-tighten the fixing screws as this may distort or damage the cover.

   Note: The wall plugs supplied with the product are not suitable for plasterboard walls, if mounting the PIR Detector onto plasterboard use proprietary wall plugs.



5. When setting Dip Switches to House Code, hold the PIR Detector 'upside down' as shown in the diagram below:

   Set the House Code for the PIR Detector by setting DIP switches 1-8 of SW2 to the same ON/OFF combination as the House Code DIP switches in all other system devices.



6. Set the alarm zone which the Detector will operate on by setting DIP switches 1-3 of SW3 as follows:

	DIP 1	DIP 2	DIP 3
Zone 1	OFF	OFF	OFF
Zone 2	OFF	OFF	ON
Zone 3	OFF	ON	OFF
Zone 4	OFF	ON	ON
Zone 5	ON	OFF	OFF
Zone 6	ON	OFF	ON

7. DIP4 of SW3 is used to set the PIR Detector for walk test mode, which allows the operation of the Detector to be checked during installation without triggering a Full Alarm.

   ON Walk Test mode
   OFF Normal operation

DIP 4 of SW3	Mode	Trigger reaction on LED
ON	Walk Test	• LED single flash when movement detected: implies the sensor is set to high sensitivity • LED flashes three times and illuminates once: implies the sensor is set to low sensitivity
OFF	Normal Position	LED will not light up (unless the battery in the PIR is low)

Note: On initial installation the PIR Detector should be set into Walk Test mode ready for testing.

8. The PIR Detector incorporates a sensitivity feature designed to compensate for situations where the Detector may be affected by environmental changes, (e.g. insects, air temperature, etc). This feature is called "Detection Sensitivity" and may be set to Standard or High Sensitivity.

   Note: The higher the sensitivity the less movement will be necessary before the PIR Detector will trigger the alarm.

   The recommended setting is Standard Sensitivity. If set to High Sensitivity, in some cases, extreme environmental problems could cause unattributed false alarms. If this is experienced it may be necessary to reset the PIR Detector to Standard Sensitivity.

   Set the required detection sensitivity using DIP 5 of SW3 as follows:

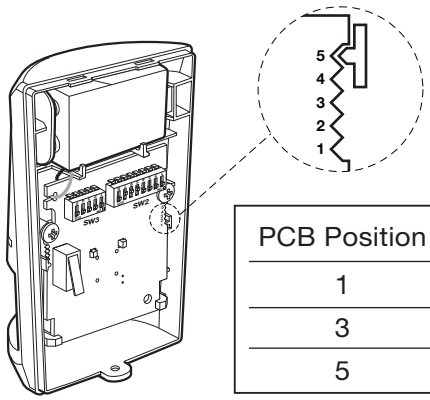
OFF	Standard Sensitivity
ON	High Sensitivity

9. Connect the PP3 Alkaline battery to the battery clip.

   Note: When the 9V Alkaline battery is connected the LED behind the lens will rapidly flash for approximately 2-3 minutes until the PIR Detector has warmed up and stabilized. The LED will then stop flashing and turn OFF.

10. Check that the PIR Detector PCB is located and set in the correct position to give the detection zone pattern required.

    To adjust the PCB position, simply slide it up or down ensuring that the location legs are aligned with the required position number marked on the board.



PCB Positions Indicator ***(positions 1-5)***

PCB Position	Range
1	6m
3	9m
5	12m

11. Refit the PIR Detector to the rear cover by offering the PIR Detector up to the rear cover and locate the clips in the top edge into the rear cover. Push the lower edge of the PIR Detector into place and refit the fixing screw in the bottom edge of the PIR Detector to secure in position. Do not over-tighten the fixing screws as this may damage the casing.

Testing the PIR Detectors

Ensure that the Control Panel is in Test mode.

With the PIR detector set in Test mode (i.e. Dip 4 on SW3 ON) and mounted in position on the wall, allow 2-3 minutes for the detector to stabilize before commencing the Walk Test.

1. Use the ▲ and ▼ buttons to scroll through the menu until **'WALK TEST'** is displayed.

   Press ↵ to activate Walk Test.

   'Walk Test Waiting…' will be displayed.

2. Walk into and move slowly around the protected area, each time the detector senses movement the LED behind the lens will flash. In addition, the Control Panel will beep to indicate that the alarm signal has been received and the identity of the zone that the detector is configured for will be displayed.

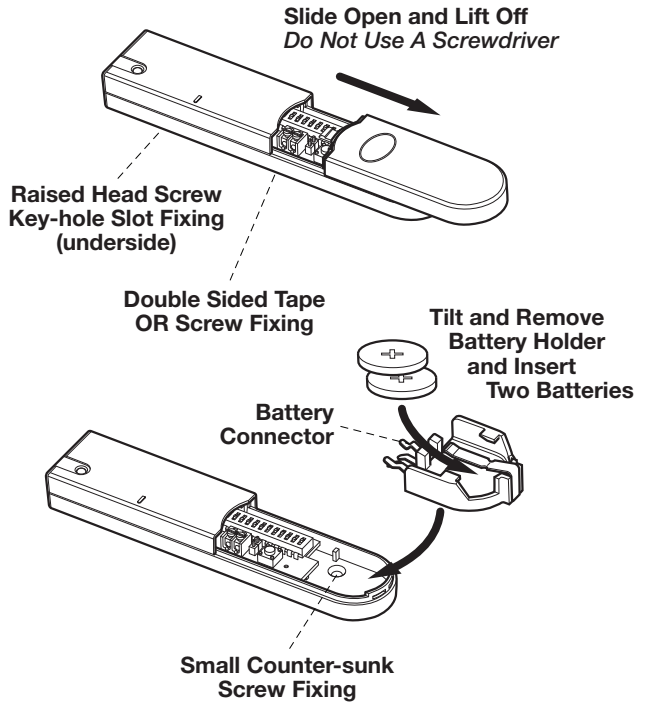
If necessary adjust the detection range by changing the mounting position of the PCB within the PIR housing.

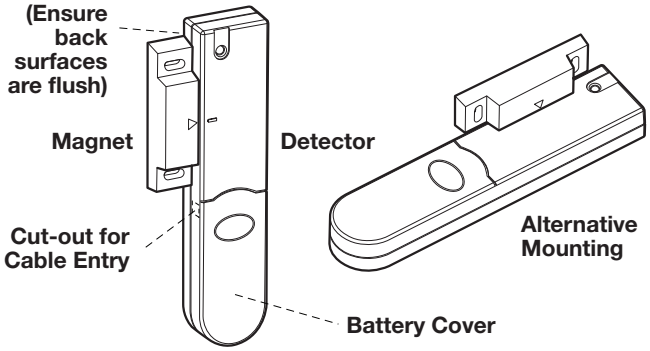
Note: In normal operation, the LED behind the PIR lens will not flash on movement detection, (unless the battery is low).

If necessary re-adjust the detection pattern by changing the mounting position of the PCB within the PIR housing.

3. Remove the back cover of the PIR detector.
   The Control Panel should beep and display 'Accessory Tamper' to show that the detector's tamper switch has been activated.
4. Press ESC to return to the top level menu of Test Mode.
5. Reconfigure the PIR Detector for normal mode by setting DIP4 of SW3 to OFF and refit in position

Note: When the detector is fully installed i.e. battery cover is refitted; the unit will not detect movement for approximately 2 minutes after each activation. (This feature is present to conserve battery power and maximize the battery life).





Magnetic Contact Detectors

Installing and setting the Magnetic Contact Detectors

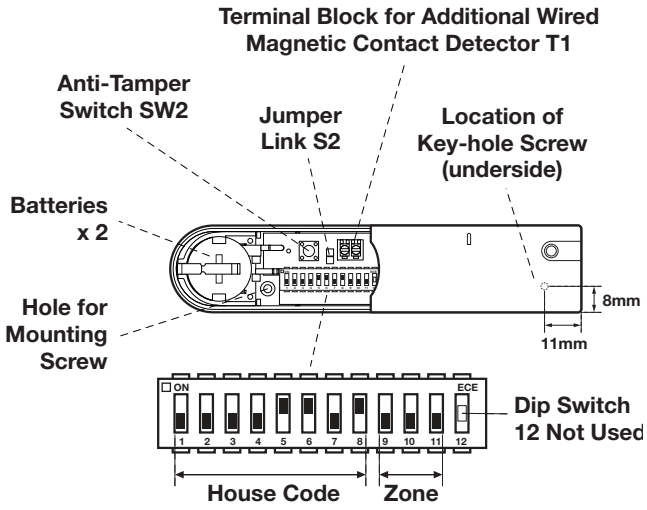
Ensure that the system is in Test mode.

1. Remove the battery cover by sliding and lifting it off. (DO NOT use a screwdriver to lever off).
2. Remove the battery holder by carefully tilting up the end and pulling the connector off the printed circuit board.
3. Mount the Magnetic Contact Detector to the fixed part of the frame along the opening edge opposite the hinges using either the double sided adhesive tape or screws provided.

   When fixing the Magnetic Contact Detector with screws, the top of the Detector is secured with a keyhole slot over the screw head of the smaller pan head screw. The bottom is secured using the 12mm countersunk head screw fitted within the battery compartment. Carefully drill out the centre of the fixing screw hole in the battery compartment using a 3mm drill. Do not over-tighten the fixing screws as this may distort or damage the casing.
4. Fit the Magnet to the moving part of the door/ window opposite the Magnetic Contact Detector using the two 15mm fixing screws. Ensuring that the parallel gap between the Magnet and Detector is less than 10mm and that the arrow on the Magnet is pointing towards and aligned with the mark on the top section of the Detector.
5. If an additional wired Magnetic Contact Detector is required, this should be wired to the terminal block provided in the battery compartment. The wired contact should be connected using two core (24AWG) wire of maximum length 1.5m.

   Important: If an additional wired contact is not connected, then the jumper link SW2 must be fitted for the Magnetic Contact Detector to operate correctly.

6. Set the House Code for the Magnetic Contact Detector by setting DIP switches 1-8 to the same ON/OFF combination as the House Code DIP switches in all other system devices.



7. Set the alarm zone which the Detector will operate on with DIP switches 9-11 as follows:

	DIP 9	DIP 10	DIP 11
Zone 1	OFF	OFF	OFF
Zone 2	OFF	OFF	ON
Zone 3	OFF	ON	OFF
Zone 4	OFF	ON	ON
Zone 5	ON	OFF	OFF
Zone 6	ON	OFF	ON

8. Slide the two batteries supplied into the battery holder, ensuring that the positive (+) side is uppermost on each battery as it is installed.

9. Carefully refit the battery holder onto the Detector ensuring that the spring connectors slide onto either side of the circuit board.

10. Fit the battery cover into position on the Magnetic Contact Detector.

Testing the Magnetic Contact Detectors

Ensure that the Contro Panel is in Test mode.

1. Use the ▲ and ▼ buttons to scroll through the menu until **'WALK TEST'** is displayed.

   Press ↵ to activate Walk Test.

   ' Walk Test Waiting…' will be displayed.

2. Remove the battery cover by sliding off..

   As the battery cover is removed the LED on the Detector will illuminate for approx. 1 second to indicate that the tamper switch has been activated. In addition, the Control Panel will beep to indicate that an alarm signal has been received and 'Accessory Tamper' will be displayed.

3. Open the door/window to detach the magnet from the Detector. As the magnet is parted from the detector the LED will illuminate for approx. 1 second to indicate that the Detector has been triggered. In addition, the Control panel will beep to indicate that an alarm signal has been received and the identity of the zone that the detector is set for will be displayed.

   Note: In normal mode with the battery cover fitted, the LED on the detector will not illuminate when the detector is triggered, (unless the battery is low).

4. If connected, operate the wired Magnetic Contact. As the contact is opened the LED on the Detector should illuminate for 1 second to indicate that it has been triggered and the Control Panel will acknowledge the alarm signal.

5. Refit the battery cover on the Detector.

6. Press ESC to return to the top level menu of Test Mode.

External Solar Siren

The Siren and Solar Panel are all encapsulated within a tough polycarbonate housing. This housing provides full protection against adverse weather conditions.

An LED/Strobe unit is built into the siren to act as a visible deterrent/indication that the system is active. The Strobe LEDs will slowly and alternately flash whether the system is armed or disarmed. However, during an alarm condition the Strobe LEDs will flash rapidly.

An integral anti-tamper switch provides additional security protection to the Solar Siren and will immediately generate a full alarm should any unauthorized attempt be made to interfere with and remove the Solar Siren cover.

The Solar Siren is powered by a high capacity battery. A Solar Panel mounted on the top of the housing

charges the battery during daylight hours. During darkness, only a small amount of energy is required to operate the Solar Siren unit.

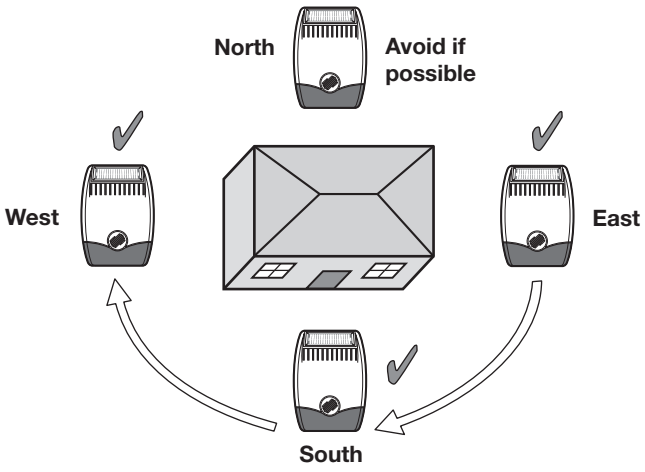
An Alkaline 9V PP3 battery is supplied in the Solar Siren to boost the initial power to the unit when the system is first activated until the Solar Panel charges the main battery.

Positioning the Solar Siren

The Solar Siren should be located in a prominent position so that it can be easily seen and heard. The Solar Siren should be mounted on a sound flat surface so that the rear tamper switch is not activated when mounted. Ensure that the tamper switch does not fall into the recess between brick courses as this could prevent the switch from closing and give a permanent tamper signal.

Although the Solar Siren is designed to work on any aspect wall, for optimum performance you should refrain from siting the unit on a north facing wall, where possible.

Shadows cast by neighbouring walls, trees and roof overhangs should also be avoided. If the Solar Siren is to be mounted below the eaves, it should be positioned a distance of at least twice the width of the eaves overhang below the eaves. Remember that in winter the sun is lower in the sky and you should avoid winter shadows where possible.



The Solar Siren contains a sophisticated radio receiver. However, reception of radio signals can be affected by the presence of metallic objects within the vicinity of the Solar Siren. It is therefore important to mount the Solar Siren a minimum distance of 1m away from any external or internal metalwork, (i.e. drainpipes, gutters, radiators, mirrors etc).

Ensure that the position selected for the Solar Siren is within effective range of the Control Panel, (refer to “Testing the Control Panel & Remote Control”).

Installing the Solar Siren

1. Remove the fixing screw from the bottom edge of the Solar Siren Siren housing and carefully hinge off the front cover. All electronic components are housed within the front cover.
2. Hold the mounting plate in position and mark the positions of the four mounting holes (a spirit level placed on the casing will ensure a perfect level). Drill four 6mm holes and fit the wall plugs.
3. Fit the two 30mm fixing screws in the top holes leaving approx. 10mm of the screw protruding.
4. Fit the top keyhole slots of the mounting plate over the screw heads. Adjust the mounting plate and adjust the screws until they form a neat fit with the mounting plate with minimal movement
5. Secure the mounting plate in position using the two 25mm fixing screws in the bottom fixing holes.
6. Ensure that the Siren’s main configuration switch on the LED Indicator board is set to "Siren".

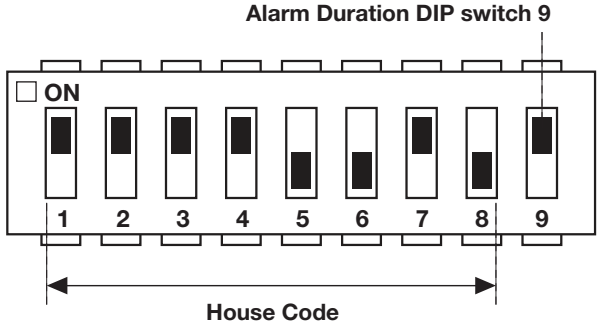
Setting the Solar Siren

Ensure that the Solar Siren main configuration switch if fitted on the LED strobe board is set to “SIREN” for use with this alarm system.

Undo the 3 screws holding the DIP Switch cover in place and remove the cover.

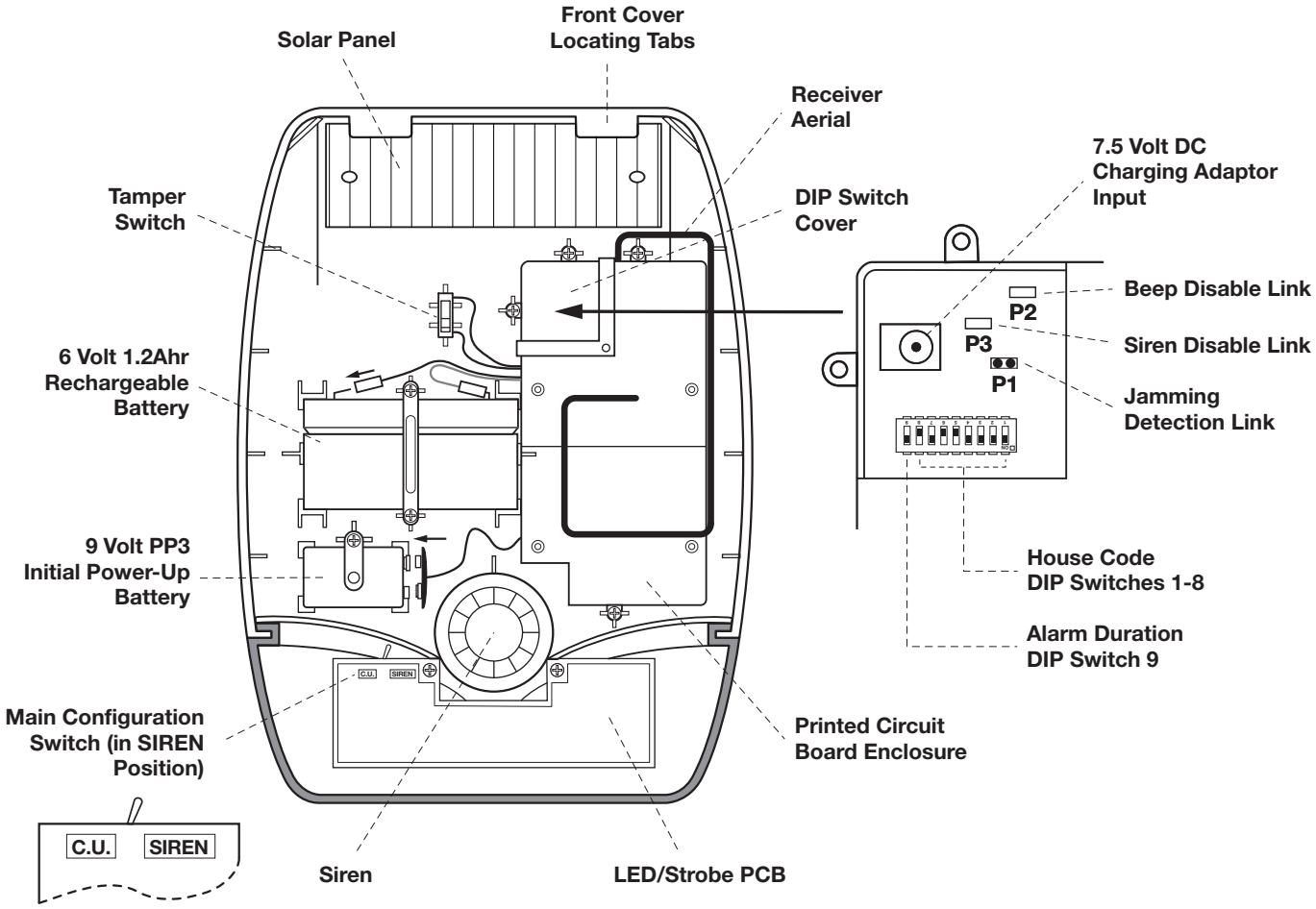
House Code

Under the corner cover you will find a series of 9 DIP switches.



(Always change from the factory setting)

DIP switches 1-8 are used to set the House Code for the siren and must be set to the same ON/OFF combination as all other system devices.



Inside view of Solar Siren

Note: When the Solar Siren is viewed as shown above (Solar panel at top) the DIP switches are 'upside down'.

Alarm Duration Limit

If required the maximum length of time that the External Solar Siren will sound for when activated under an alarm condition may be limited to 3 minutes using DIP switch 9 as follows:

OFF	3 minute limit
ON	10 minutes or same as programmed setting on Control Panel.

Beep Disable

The Solar Siren will acknowledge Disarm signals from the Remote Control by beeping twice. It is possible to disable the beeps if required by removing the jumper link P2 on the circuit board.

Siren Disable

If for any reason you need to disable the Siren, remove jumper link P3 on the circuit board. This will prevent the Siren from sounding during an alarm condition. However, the Siren will still beep to acknowledge signals from the Remote Control, (provided the beep feature is not disabled).

Once you have completed configuring the Solar Siren, refit the DIP switch cover and replace the three cover fixing screws. Do not over tighten the screw as this could damage the thread.

Initial Power-Up of the Solar Siren

1. Connect the 9V PP3 initial power battery to the battery clip.

   Connect the rechargeable battery to the charging leads. Connect the Red lead to the Red (+) terminal and the Black lead to the Black (–) terminals.

   Note: Once the batteries have been connected, the Siren will be operational and it is important that the Solar panel receives sufficient light to maintain the battery charge. The Siren should not be operated repeatedly during installation and testing, as this will rapidly drain the battery. It is recommended that the Siren be left for at least a day in order to charge the battery before the system is armed.

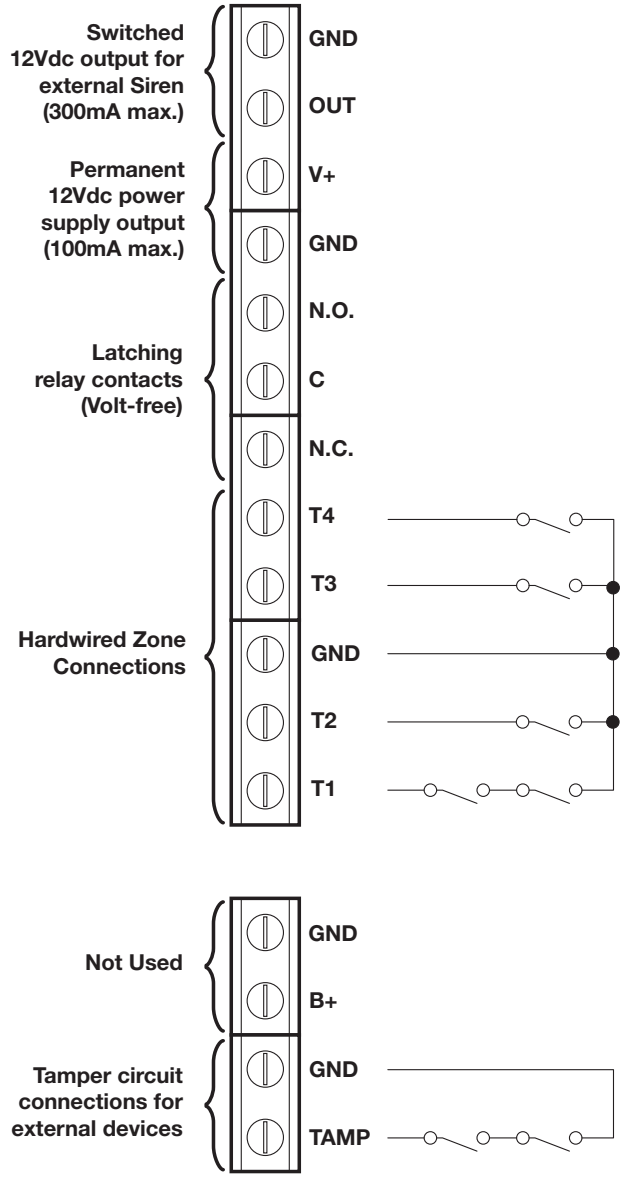
2. Press the anti-tamper switch, the LEDs will flash together to indicate that the unit is operational.

3. Hinge the front cover locating tabs over the top edge of the back plate and carefully push the base of the siren cover into place. Secure the siren cover in place by refitting the fixing screw in the bottom edge of the cover. Do not over tighten the screw as this could damage the thread.

   Important: Ensure that the rear tamper switch is closed when you fit the siren cover to the back plate (i.e. listen for the switch to click). If the switch does not close this will prevent the Solar Siren from operating correctly.

4. The fitting of the Solar Siren is now complete.

External Connections



Terminal Block Detail

The Control Unit incorporates a terminal block for connection of hard-wired Zones (7-10), Siren or Telephone Dialler unit. The connection terminal block is located inside the Control Panel behind the front cover.

To access the terminal block, press

This puts the system into Test Mode and prevents an alarm occurring. Undo the two fixing screws on the top edge of the Control Panel and open the front covers.

Before making any connections, ensure that the memory jumper link P1 is in the 'OFF' position and then remove the DC power jack and disconnect one of the back-up batteries.

Hardwired zone and tamper switches should be Volt free and Normally Closed, with the contacts opening in order to initiate an alarm.

Note: Jumper link P51 should be fitted into the ON position only if the external hardwired tamper circuit is used, otherwise it must be in the OFF position.

After making your external connections reconnect the power supply and Back-up Battery. Then close the Control Panel cover and tighten the fixing screws on the top edge of the Control Panel.

Testing the System

Initial Testing

As the system is initially installed it is recommended that each device is tested in turn as it is installed, (refer to testing instructions for particular device).

Testing an Installed System

The Control Panel has a programmed test routine. You may test the system at any time, however it is recommended that the system is tested at regular intervals not exceeding 3 months.

With the system in Standby Mode

Press

User Access Code

This puts the system into Test Mode.

The Arm and Part-Arm LEDs will flash.

The system is now in the Test Mode

Use the [▲] and [▼] buttons to scroll through the menu and press [↵] to select the displayed test function or sub-menu.

Note: After completing all required test functions press [ESC] to leave Test mode and return to Standby.

Walk Test

Before commencing testing please ensure that there is no movement in any PIR protected area, all doors/windows protected by Magnetic Contact Detectors are closed and that all battery covers and housings are correctly fitted.

Scroll through the top level Test Mode menu until **'WALK TEST'** is displayed and press [↵].

'Walk Test Waiting...' will be displayed.

1. Trigger each detector on the system by either walking into a PIR protected area or by opening a door/window protected by a Magnetic Contact detector. As each detector is triggered the Control Panel will beep to indicate that an alarm signal has been received and the identity of the zone that the detector is configured for will be displayed
2. Operate detector anti-tamper switches by opening the case of the device. As the switches are operated the Control Panel will beep and **'Accessory Tamper'** will be displayed.
3. Activate each button on the Remote control in turn. As each button is pressed the Control panel will beep and the button name will be displayed, (e.g. **'REMOTE CONTROL DISARM'**).

Press [ESC] to exit Walk Test and return to the top level Test Mode menu.

Alarm Test

Scroll through the top level Test Mode menu until **'ALARM TEST'** is displayed and press [↵].

Scroll through the menu until the required alarm is displayed and press [↵] to operate the selected alarm for 5 seconds.

Select **'Wirefree Siren Test'** to operate the External Solar Siren.

Select **'Hardwired Siren Test'** to operate the Control Panel Siren and external hardwired Siren (if connected).

Select **'Relay Test'** to operate the External hardwired (N.O./N.C.) Relay contacts.

Press [ESC] to exit Alarm Test and return to the top level Test Mode menu.

Wirefree Siren Service ON/OFF

Scroll through the top level Test Mode menu until **'Wirefree Siren Service ON/OFF'** is displayed and press [↵].

This offers the flexibility of removing or changing siren's battery. Wait for 10 seconds until ON/OFF duration has elapsed, then go ahead with fixing the siren as desired.

Voice Dialler Test

Scroll through the top level Test Mode menu until **'VOICE DIALLER TEST'** is displayed and press [↵].

In order to test the voice dialler properly, the prerequisite is to set the telephone number, record the message and enable the call routing in the programming mode.

When testing is in progress, simply press [ESC] to stop testing.

If **'LINE STATUS'** LED is flashing, it implies bad telephone line connection or telephone network being out of order. Check the telephone line and re-test it.

Digital Dialler Test

Scroll through the top level Test Mode menu until **'DIGITAL DIALLER TEST'** is displayed and press [↵].

In order to test the digital dialler properly, the prerequisite is to set the telephone number and unit ID number in the programming mode.

When testing is in progress, simply press [ESC] to stop testing.

If **'LINE STATUS'** LED is flashing, it implies two causes of failure. One is bad telephone line connection or telephone network being out of order.

The other cause of failure is derived from the central monitoring station. Consult with the central monitoring station for help.

Factory Default Settings

User Setup

Users 1-6	Not programmed
Master Password	1234

System Setup

House Code	Not programmed
Alarm Time	ON, 180 seconds
Wirefree Siren	ON
RF Jamming Detection	OFF
Back Light	10 seconds
Alarm Relay	On Until Disarm
Zone Lockout	ON
Remote Phone Control	ON
Rings to Answer Phone	6
Call Abort	OFF
Dial method	Tone/DTMF
Dialler Mode	Voice Dialler

Zone Setup (Z1-10)

Name		No Name
Type		Intruder
Final Exit		OFF
Chime		OFF
Entry Delay	Zone 1	ON, 30 seconds
	Zone 2-10	OFF
Part-Arm 1		OFF
Part-Arm 2		OFF
Walk Through		OFF

Voice Dialler Setup

Phone Numbers	Not programmed
Message Play Time	70 seconds
Alarm Messages	Not programmed
Call Routing	All numbers disabled
Call Confirms	1
Call Attempts	3

Full Arm Setup

Exit Delay	ON, 30 seconds
Entry Delay Beep	ON
Exit Delay Beep	ON

Part-Arm 1 Setup

Exit Delay	ON, 30 seconds
Entry Delay Beep	ON
Exit Delay Beep	ON

Part-Arm 2 Setup

Exit Delay	ON, 30 seconds
Entry Delay Beep	ON
Exit Delay Beep	ON

Time and Date

Time	12:00:00
Date	01/01/02

Home Control Setup

Not for use within UK	

Latchkey Setup

Status	OFF
Selected User Setup	OFF (all users)
Phone Numbers	Not programmed

Answer Phone Setup

Status	OFF
Greeting Message	Not programmed

Remote Manager Setup

Phone Number	Not programmed
Unit ID Number	Not programmed

Digital Dialler Setup

Phone No.	Not programmed
Unit ID No.	Not programmed
Call Attempts	3
Open/Close by user	OFF

Reset Factory Default Conditions

1. Press

User Access Code

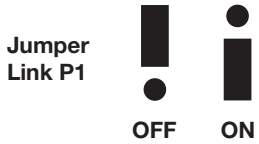
   to place the system in Test Mode.

2. Undo the Control Panel cover fixing screws and open the cover.

3. Switch OFF the mains supply to the plug-in PSU Adapter and remove the plug from the DC power socket in the Control Panel..

4. Remove either back-up battery and disconnect the battery leads.

5. Set jumper link P1 to the ON position.



6. Reconnect the battery leads and replace the back-up battery in position.

   Reconnect the PSU Adapter plug to the DC power socket in the Control Panel and switch On the supply to the PSU Adaptor.

7. As the Control Panel powers-up, **'EEPROM RESET'** will be displayed while the factory default conditions are restored to memory. Once the memory reset has been completed **'DISARM READY'** will be displayed. The Control Panel will now be reconfigured with all factory default settings.

8. Reset jumper link P1 into the OFF position.

9. Close the Control Panel cover and refit the fixing screws.

Programming Instructions

Press [🔑] , [?] [?] [?] [?] , [↵]

Master User Access Code

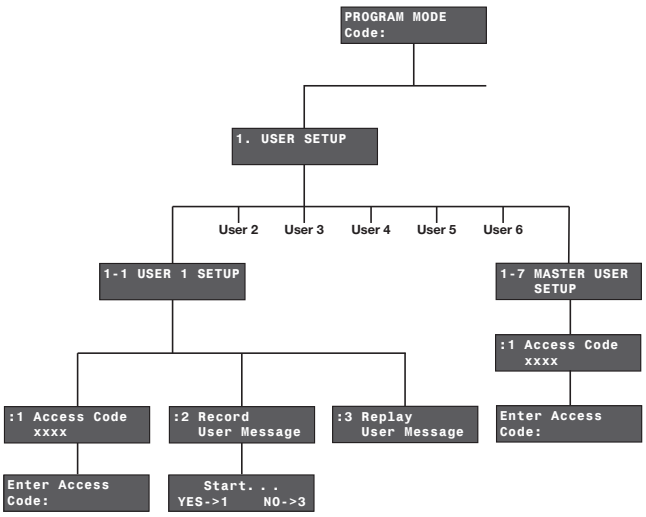
The Arm and Part-Arm LEDs will illuminate and all Zone, Fire and tamper LEDs will flash.

The system is now in Programme Mode

Use the [▲] and [▼] buttons to scroll through the programming menu. Press [↵] to select the displayed programming function or sub-menu.

Note: After programming all required functions press [ESC] to leave Programme mode and return to Standby.

User Setup



Scroll through the top level programming menu until **'1. USER SETUP'** is displayed and press [↵] .

Use the [▲] and [▼] buttons to scroll through the programming menu until the required user to be configured is displayed and press [↵] .

Note: After configuring all required users press [ESC] to return to the top level programming menu.

Users 1-6

Default setting: not programmed

Scroll through the menu until the required User to be configured is displayed and press [↵] .

User Access Code

Scroll through the menu until **':1 Access Code'** is displayed. The current setting will also be displayed.

To change the setting press [↵] .

Enter the new 4 digit Access Code and then

Press [↵] to save and exit, or

Press [ESC] to exit without saving.

Record User Message

This enables each User to record a short 4 second message for use with the Latch Key facility. e.g. "system disarmed by User-1".

Scroll through the menu until **':2 Record User Message'** is displayed.

To record a new message press [↵] .

Press [1] to start the voice recorder, (max duration: 4 seconds). Once completed the recording will automatically be played back, or

Press [3] to exit without changing.

Note: After recording the message, press [ESC] to stop the recorder and cancel any remaining message time.

Replay User Message

Scroll through the menu until **':3 Replay User Message'** is displayed.

Press [↵] to replay the user message.

Press [ESC] to return to the top level User-Setup menu.

Master User

Default setting: 1234

Scroll through the menu until **'1-7 MASTER USER SETUP'** is displayed and press [↵] .

':1 Access Code' and the current setting will be displayed.

To change the setting press [↵] .

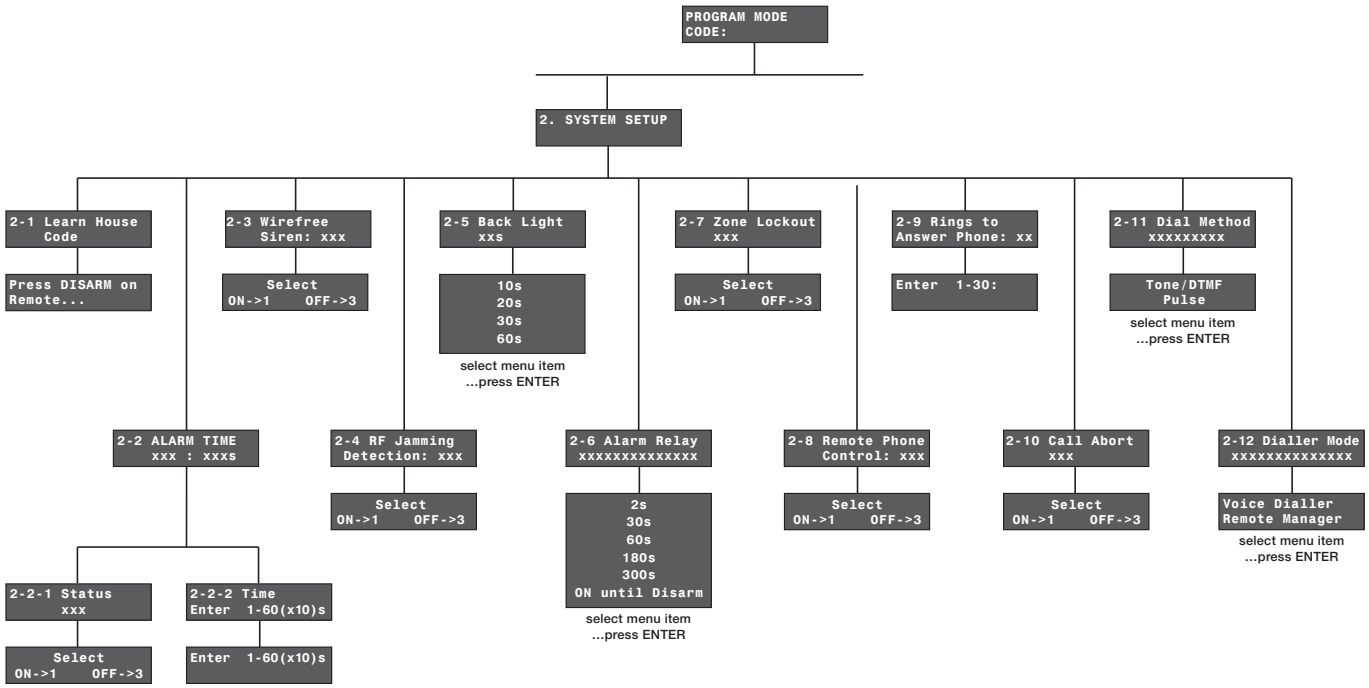
Type in a new 4 digit Access Code, and then

Press [↵] to save and exit, or

Press [ESC] to exit without saving.

Press [ESC] to return to the top level User-Setup menu.

System Setup



Scroll through the top level programming menu until **'2. SYSTEM SETUP'** is displayed and press [↵] .

Note: After completing the system setup press [ESC] to return to the top level programming menu.

Learn System House Code

Scroll through the menu until **'2-1 Learn House Code'** is displayed.

To program the Control Panel with the system House Code press [↵] .

Press [◈] on the Remote Control.

The new programmed system house code will be recorded into memory and displayed on the bottom line of the LCD, with the corresponding DIP switch number shown on the top line.

Make a note of the system house code now in the space provided on page 40.

Press [ESC] to exit.

Alarm Duration

Scroll through the menu until '**2-2 ALARM TIME**' is displayed. The current settings will also be displayed. To change the settings press [↵] .

On/Off Status

Default setting: ON

Scroll through the menu until **'2-2-1 Status'** is displayed. The current settings will also be displayed.

To change the setting press [↵] .

Press [1] to enable the Siren, or

Press [3] to disable the Siren.

Alarm Duration

Default setting: 180 seconds

Scroll through the menu until **'2-2-2 Time'** is displayed.

To change the setting press [↵] .

Enter the required alarm duration in units of 10s. e.g. enter 6 for a 60s alarm duration (max setting 60, i.e. 600s/10mins).

Press [↵] to save and exit, or

Press [ESC] to exit without saving.

Press [ESC] to return to top level System Setup menu.

Note: Following initiation of a Full Alarm condition the External Siren will continue to sound until either the system is Disarmed; or the Control Panel Alarm Duration Time expires; or if activated until the 3 minute alarm time limit of the external Siren expires; whichever occurs first.

Wirefree Solar Siren

Default setting: ON

Scroll through the menu until **'2-3 Wirefree Siren'** is displayed. The current setting will also be displayed. To change the setting press .

Press to enable the Solar Siren, or

Press to disable the Solar Siren.

Jamming Detection

This feature controls the Control Panels RF jamming detection circuitry, which if enabled, will continuously scan for radio jamming signals on the system operating frequency.

Default setting: OFF

Scroll through the menu until **'2-4 RF Jamming Detection'** is displayed. The current setting will also be displayed.

To change the setting press .

Press to enable Jamming Detection, or

Press to disable Jamming Detection.

Control Panel Back Light

This controls the time period that the backlight for the Control Panel display will stay illuminated for after the last key is pressed.

Default setting: 10 seconds

Scroll through the menu until **'2-5 Back Light'** is displayed. The current setting will also be displayed.

To change the setting press .

Scroll through available options, (10, 20, 30 and 60 seconds) until the required setting is displayed.

Press to save and exit, or

Press to exit without saving.

Alarm Relay

This setting controls the operation period for the NO/NC hardwired output relay contacts following an alarm condition being initiated.

If this is set to **'ON Until Disarm'** then the relay will latch and remain On until the system is next disarmed.

Default setting: ON Until Disarm

Scroll through the menu until **'2-6 Alarm Relay'** is displayed. The current setting will also be displayed.

To change the setting press .

Scroll through available options, **(2s, 30s, 60s, 180s, 300s and 'ON Until Disarm')** until the required setting is displayed and then

Press to save and exit, or

Press to exit without saving.

Zone Lockout

This feature, if enabled, prevents a single zone from triggering an alarm condition more than three times before the system is disarmed. However, if disabled there is no limit on the number of times a zone can trigger an alarm condition.

Default setting: ON

Scroll through the menu until **'2-7 Zone Lockout'** is displayed. The current setting will also be displayed.

To change the setting press .

Press to enable Zone Lockout, or

Press to disable Zone Lockout.

Remote System Control

This feature, if enabled, allows the system to be remotely controlled via the telephone.

Default setting: ON

Scroll through the menu until **'2-8 Remote Phone Control'** is displayed. The current setting will also be displayed.

To change the setting press .

Press to enable Remote Phone Control, or

Press to disable Remote Phone Control.

Rings To Answer Phone

This controls the number of times a connected phone will be allowed to ring before the line is picked up for either Answer-Phone and/or Remote Phone Access use.

Default setting: 6

To change the setting press .

Enter the required number of rings (1-30) before the Control panel will pick up the call

Press to save and exit, or

Press to exit without saving.

Call Abort

This feature, if enabled, will delay the activation of the telephone dialler following an alarm for a period of approx 10s to allow the system to be disarmed.

Default setting: OFF

Scroll through the menu until **'2-10 Call Abort'** is displayed. The current setting will also be displayed.

To change the setting press .

Press to enable Call Abort, or

Press to disable Call Abort.

Dial Method

This feature enables the telephone dialler to be configured for type of exchange it is connected to. **Note:** Most installations within the UK are now operating on a Tone/DTMF based exchange.

Default setting: Tone/DTMF

Scroll through the menu until **'2-11 Dial Method'** is displayed. The current setting will also be displayed.

To change the setting press .

Scroll through available options, (Tone/DTMF and Pulse), until the required setting is displayed and then

Press to save and exit, or

Press to exit without saving.

Dial Mode

This facility controls whether the internal telephone dialler operates with the voice dialler facility or an external Remote Security Monitoring service.

Default setting: Voice Dialler

Scroll through the menu until **'2-12 Dialler mode'** is displayed. The current setting will also be displayed.

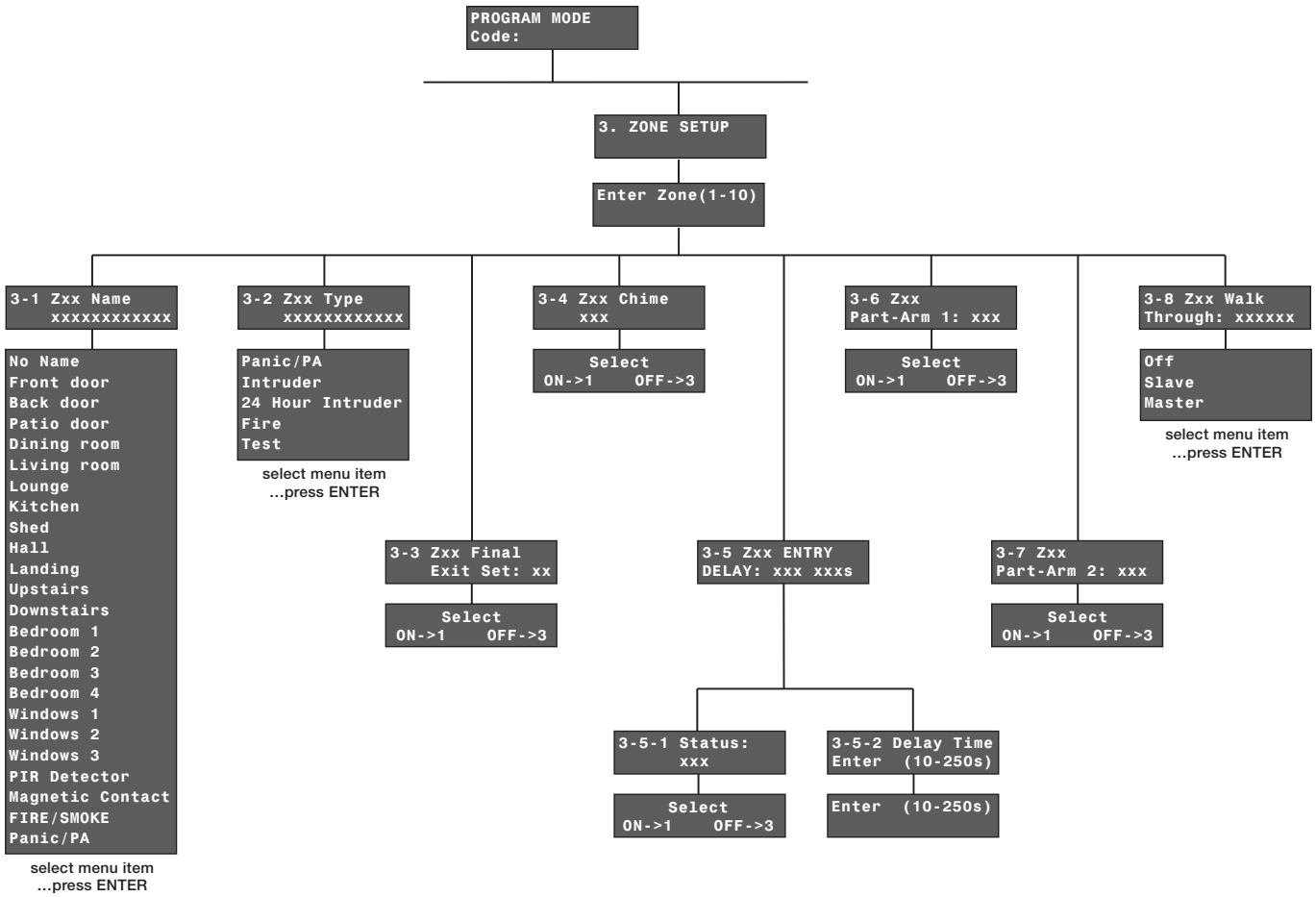
To change the setting press .

Scroll through available options, (Voice Dialler and Remote Manager) until the required setting is displayed.

Press to save and exit, or

Press to exit without saving.

Zone Setup



Scroll through the programming menu until **'3. ZONE SETUP'** is displayed and press [↵] .

Enter the zone number to be configured and press [↵] .

The following configuration options are based upon configuring zone 1. Options for all other zones (2-10) are identical except the zone number reference will change according to the zone being configured.

Note: After completing the Zone Setup press [ESC] to return to the top level programming menu.

Name

Default setting: 'No Name'

Scroll through the menu until **'3-1 Z01 Name'** is displayed. The current setting will also be displayed.

To change the setting press [↵] .

Scroll through available options until the required setting is displayed.

Press [↵] to save and exit, or

Press [ESC] to exit without saving.

Type

Each alarm zone may be programmed to operate in one of 5 different modes dependant upon the type of alarm function it is required to perform. The following alarm types are available:

Panic/PA

- used to provide 24 hour monitoring of any Personal Attack (PA) switches fitted to the system. Activation of any PA switch will immediately initiate a Full Alarm condition.

Intruder

- provides standard intruder monitoring with normal ARM and PART-ARM functions.

24 Hour Intruder

- used to provide 24 hour monitoring of areas requiring continuous security protection even while the system is Disarmed, (e.g. gun lockers). Activation of any detector on a security zone will immediately initiate a Full Alarm condition.

Fire

- use to provide 24 hour monitoring of any Fire/Smoke detectors fitted to the system. Activation of any detector will immediately initiate a Full Alarm condition.

Test

- when the system is armed, any detector on the zone will generate an entry in the Event-Log without initiating an alarm condition.

Note: Personal Attack, 24-hour Intruder and Fire modes all operate on a 24 hour basis, (i.e. they are able to initiate Full Alarm condition at any time irrespective of whether the system is Armed or Disarmed).

Default setting: 'Intruder'

Scroll through the menu until **'3-2 Z01 Type'** is displayed. The current setting will also be displayed.

To change the setting press .

Scroll through available options until the required setting is displayed.

Press to save and exit, or

Press to exit without saving.

Final Exit Set

If enabled, triggering of any detector on the zone during the exit-delay will cancel any remaining exit-delay and cause the system to arm 5 seconds later.

Default setting: OFF

Scroll through the menu until **'3-3 Z01 Final Exit Set'** is displayed. The current setting will also be displayed.

To change the setting press .

Press to enable the zone's Final Exit Set facility, or

Press to disable the zone's Final Exit Set facility.

Chime

This controls whether the Chime facility is available on the zone.

Default setting: OFF

Scroll through the menu until **'3-4 Z01 Chime'** is displayed. The current setting will also be displayed.
To change the setting press .

Press to enable the zone's Chime facility, or

Press to disable the zone's Chime facility.

Entry Delay

Scroll through the menu until **'3-5 ENTRY DELAY'** is displayed. The current settings will also be displayed.

To change the settings press .

On/Off Status

Default setting:	**zone 1:**	**ON**
	zones 2-10:	**OFF**

Scroll through the menu until **'3-5-1 Status'** is displayed. The current setting will also be displayed.

To change the settings press .

Press to enable the zone's entry-delay, or

Press to disable the zone's entry-delay.

Delay Period

Default setting: 30 seconds

Scroll through the menu until **'3-5-2 Delay Time'** is displayed.

To change the settings press .

Enter the required delay period (10 to 250s).

Press to save and exit, or

Press to exit without saving.

Press to return to top level Zone Setup.

Part-Arm 1

This controls whether the zone is active when Part-Arm 1 is armed.

Default setting: OFF

Scroll through the menu until **'3-6 Z01 Part-Arm 1'** is displayed. The current setting will also be displayed.

To change the setting press .

Press to enable the Zone in Part-Arm 1, or

Press to disable the Zone in Part-Arm 1.

Part-Arm 2

This controls whether the zone is active when Part-Arm 2 is armed.

Default setting: OFF

Scroll through the menu until **'3-7 Z01 Part-Arm 2'** is displayed. The current setting will also be displayed.

To change the setting press [↵] .

Press [1] to enable the Zone in Part-Arm 2, or

Press [3] to disable the Zone in Part-Arm 2.

Walk Through

Default setting: OFF

Scroll through the menu until **'3-8 Z01 Walk Through'** is displayed. The current setting will also be displayed.

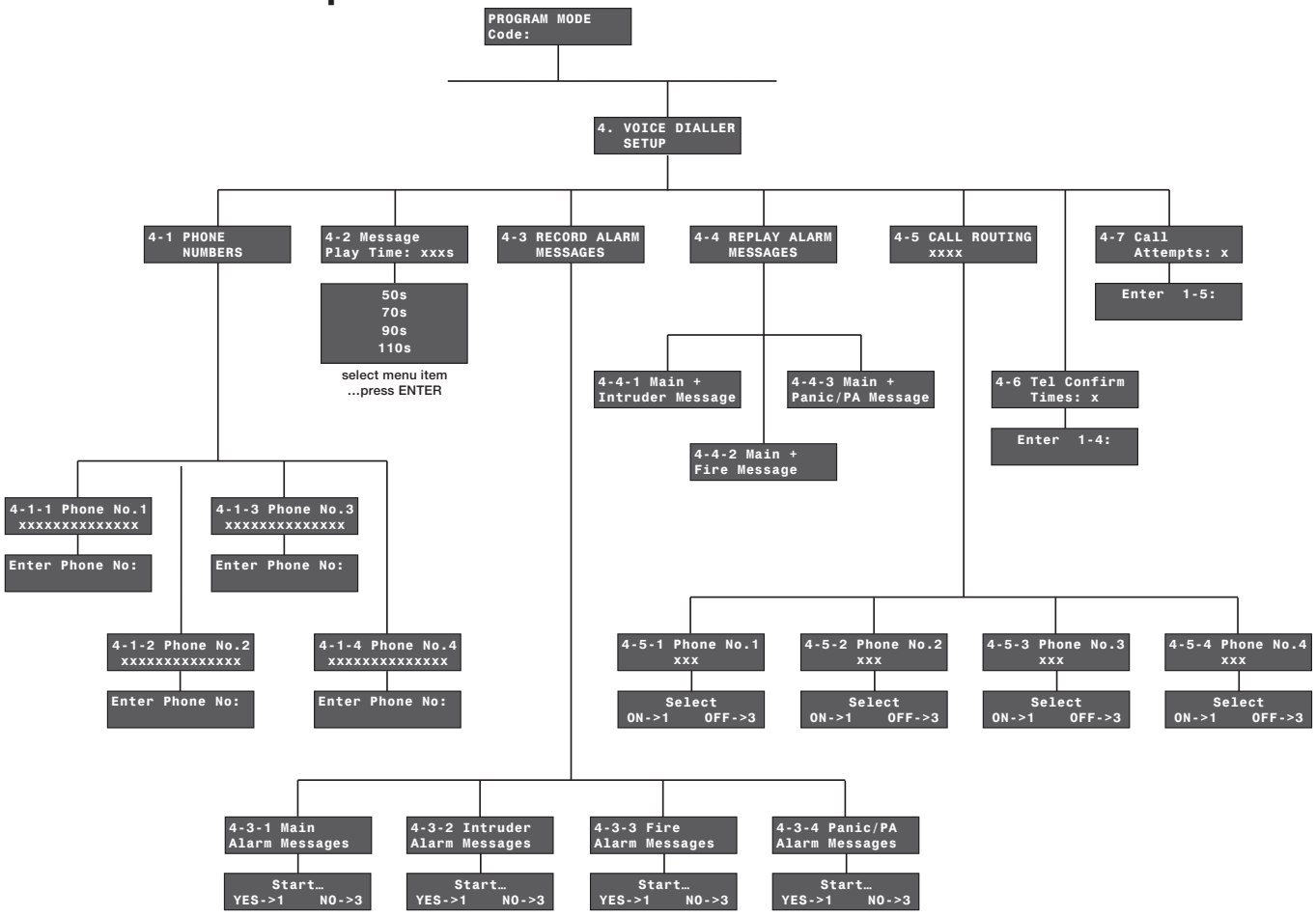
To change the setting press [↵] .

Scroll through available options, (Off, Master and Slave), until the required setting is displayed.

Press [↵] to save and exit, or

Press [ESC] to exit without saving.

Voice Dialler Setup



Scroll through the programming menu until **'4. VOICE DIALLER SETUP'** is displayed and press [↵] .

Note: After completing the Voice Dialler Setup press [ESC] to return to the top level programming menu.

Telephone Numbers

Scroll through the menu until **'4-1 PHONE NUMBERS'** is displayed and press [↵] .

Scroll through the menu until the required Telephone number (1-4) is displayed. The current setting of each telephone number will also be displayed.

To change the number press [↵] .

Enter the new telephone number (32 digits max)

Press [↵] to save and exit, or

Press [ESC] to exit without saving.

Notes:

Press to insert a 3.5 second pause in the dialing sequence.

Press to move the cursor left.

Press to move the cursor right.

Press to delete the character under the cursor.

Press and hold to erase the entire phone number.

After programming all required phone numbers press to return to the top level Voice Dialler menu.

Alarm Message Play Time

This is the total time for which the alarm messages will be played & repeated when a call made by the voice dialler is answered.

Default setting: 70 seconds

Scroll through the menu until **'4-2 Message Play Time'** is displayed. The current settings will also be displayed.

To change the settings press .

Scroll through the available options, (50s, 70s, 90s and 110s) until the required setting is displayed.

Press to save and exit, or

Press to exit without saving.

Record Alarm Messages

Scroll through the menu until **'4-3 RECORD VOICE'** is displayed and press .

Scroll through the available menu options until the required message type to be recorded is displayed.

a) Main Alarm message, (12 seconds max).

b) Intruder Alarm message, (4 seconds max).

c) Fire Alarm message, (4 seconds max).

d) Panic/PA Alarm message, (4 seconds max).

To record a new message press .

Press to start the voice recorder. Once completed the recording will automatically be replayed, or

Press to exit without changing.

Note: After recording the message, press to stop the recorder and cancel any remaining message time.

Press to return to the top level Voice Dialler setup menu.

Replay Alarm Messages

Scroll through the menu until **'4-4 REPLAY ALARM MESSAGES'** is displayed and press .

Scroll through the available menu options until the required message type is displayed.

a) Main + Intruder Messages

b) Main + Fire Messages

c) Main + Panic/PA Messages

To replay the message press .

Press to return to the top level Voice Dialler menu.

Call Routing

This feature controls which telephone numbers are enabled in the dialing sequence and are dialed when the voice dialler is activated.

The current routing sequence is displayed on screen in the order of phone numbers 1-4. An "X" indicates the number is disabled and a 'O' indicates the number is enabled in the routing sequence. e.g. A display = "OOOx" indicates a call sequence of phone nos. 1, 2 and 3, phone number 4 is disabled and not called.

Default setting: all numbers disabled.

Scroll through the menu until **'4-5 CALL ROUTING'** is displayed. The current settings will also be displayed. Scroll through the available menu options until the required telephone number (1-4) to be configured is displayed. The current status will also be displayed.

To change the setting press .

Press to enable the number in the routing sequence, or

Press to disable the number in the routing sequence.

Press to return to the top level Voice Dialler Setup menu.

Tel Confirm Times

This sets the number of acknowledged phone numbers required to stop the voice dialler. For example if set to "2" then the dialing sequence will continue until an acknowledgment is received from two different numbers, (e.g. Phone No.1 and Phone No.3).

Default setting: 1

Scroll through the menu until **'4-6 Tel Confirm Times'** is displayed. The current settings will also be displayed.

To change the setting press [↵] .

Enter the required number (1-4).

Press [↵] to save and exit, or

Press [ESC] to exit without saving.

Call Attempts

This sets the maximum number of times that the dialler will attempt to contact each enabled telephone number in the call routing sequence.

Default setting: 3

Scroll through the menu until **'4-7 Call Attempts'** is displayed. The current settings will also be displayed.

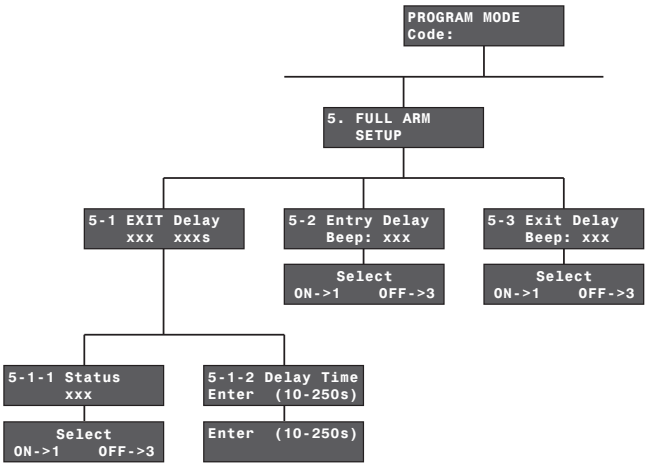
To change the setting press [↵] .

Enter the required number (1-5).

Press [↵] to save and exit, or

Press [ESC] to exit without saving.

Full Arm Setup



Scroll through the programming menu until **'5. FULL ARM SETUP'** is displayed and press [↵] .

Note: After configuring Full Arm press [ESC] to return to the top level programming menu.

Exit Delay

Scroll through the menu until **'5-1 EXIT-DELAY'** is displayed. The current settings will also be displayed.

To change the settings press [↵] .

On/Off Status

Default setting: ON

Scroll through the menu until **'5-1-1 Status'** is displayed. The current setting will also be displayed.

To change the settings press [↵] .

Press [1] to enable the Exit delay, or

Press [3] to disable the Exit delay.

Delay Period

Default setting: 30 seconds

Scroll through the menu until **'5-1-2 Delay Time'** is displayed. The current settings will also be displayed.

To change the settings press [↵] .

Enter the required delay period (10 to 250s).

Press [↵] to save and exit, or

Press [ESC] to exit without saving.

Press [ESC] to return to top level Full Arm Setup menu.

Entry Delay Beep

This controls the warning beep which operates during the Entry Delay period when Full Arm is active.

Default Setting: ON

Scroll through the menu until **'5-2 Entry Delay Beep'** is displayed. The current setting will also be displayed.

To change the setting press [↵] .

Press [1] to enable the entry-delay beep, or

Press [3] to disable the entry-delay beep.

Exit Delay Beep

This controls the warning beep which operates during the Exit Delay period when Full Arm is initiated.

Default Setting: ON

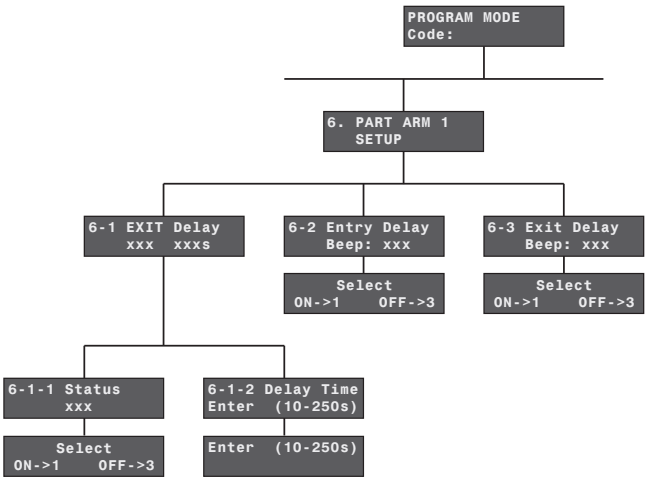
Scroll through the menu until **'5-3 Exit Delay Beep'** is displayed. The current setting will also be displayed.

To change the setting press [↵] .

Press [1] to enable the exit-delay beep, or

Press [3] to disable the exit-delay beep.

Part-Arm 1 Setup



Scroll through the programming menu until **'6. PART-ARM 1 SETUP'** is displayed and press [↵] .

Note: After configuring Part-Arm 1 press [ESC] to return to the top level programming menu.

Exit Delay

Scroll through the menu until **'6-1 EXIT-DELAY'** is displayed. The current settings will also be displayed.

To change the settings press [↵] .

On/Off Status

Default setting: ON

Scroll through the menu until **'6-1-1 Status'** is displayed. The current setting will also be displayed.

To change the settings press [↵] .

Press [1] to enable the Exit delay, or

Press [3] to disable the Exit delay.

Delay Period

Default setting: 30 seconds

Scroll through the menu until **'6-1-2 Delay Time'** is displayed. The current settings will also be displayed.

To change the settings press [↵] .

Enter the required delay period (10 to 250s).

Press [↵] to save and exit, or

Press [ESC] to exit without saving.

Press [ESC] to return to top level Part-Arm 1 Setup menu

Entry Delay Beep

This controls the warning beep which operates during the Entry Delay period when Part-Arm 1 is active.

Default Setting: ON

Scroll through the menu until **'6-2 Entry Delay Beep'** is displayed. The current setting will also be displayed.

To change the setting press [↵] .

Press [1] to enable the entry-delay beep, or

Press [3] to disable the entry-delay beep.

Exit Delay Beep

This controls the warning beep which operates during the Exit Delay period when Part-Arm 1 is initiated.

Default Setting: ON

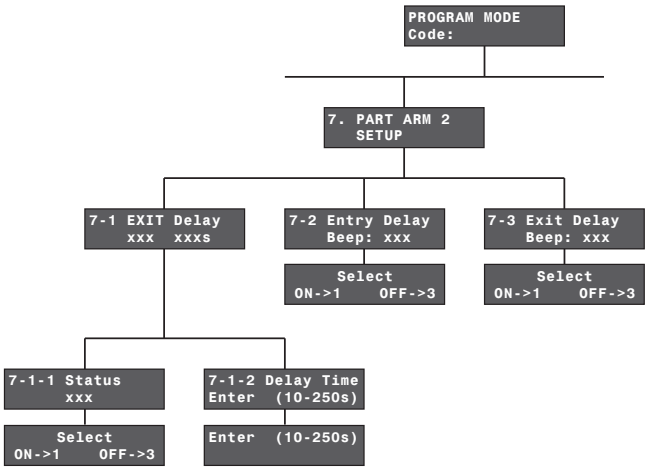
Scroll through the menu until **'6-3 Exit Delay Beep'** is displayed. The current setting will also be displayed.

To change the setting press [↵] .

Press [1] to enable the exit-delay beep, or

Press [3] to disable the exit-delay beep.

Part-Arm 2 Setup



Scroll through the programming menu until **'7. PART-ARM 2 SETUP'** is displayed and press ↵ .

Note: After configuring Full Arm press ESC to return to the top level programming menu.

Exit Delay

Scroll through the menu until **'7-1 EXIT-DELAY'** is displayed. The current settings will also be displayed.

To change the settings press ↵ .

On/Off Status

Default setting: ON

Scroll through the menu until **'7-1-1 Status'** is displayed. The current setting will also be displayed.

To change the settings press ↵ .

Press 1 to enable the Exit delay, or

Press 3 to disable the Exit delay.

Delay Period

Default setting: 30 seconds

Scroll through the menu until **'7-1-2 Delay Time'** is displayed. The current settings will also be displayed.

To change the settings press ↵ .

Enter the required delay period (10 to 250s).

Press ↵ to save and exit, or

Press ESC to exit without saving.

Press ESC to return to top level Part-Arm 2 Setup menu.

Entry Delay Beep

This controls the warning beep which operates during the Entry Delay period when Part-Arm 2 is active.

Default Setting: ON

Scroll through the menu until **'7-2 Entry Delay Beep'** is displayed. The current setting will also be displayed.

To change the setting press ↵ .

Press 1 to enable the entry-delay beep, or

Press 3 to disable the entry-delay beep.

Exit Delay Beep

This controls the warning beep which operates during the Exit Delay period when Part-Arm 2 is initiated.

Default Setting: ON

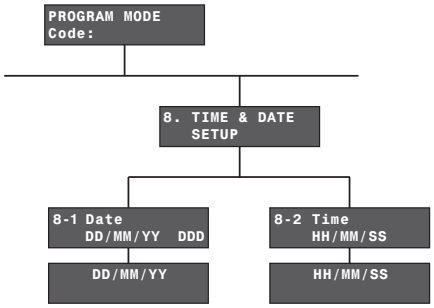
Scroll through the menu until **'7-3 Exit Delay Beep'** is displayed. The current setting will also be displayed.

To change the setting press ↵ .

Press 1 to enable the exit-delay beep, or

Press 3 to disable the exit-delay beep.

Time & Date Setup



Scroll through the menu until **'8 TIME & DATE SETUP'** is displayed and press ↵ .

Note: After configuring the Time and Date press ESC to return to the top level programming menu.

Date

Scroll through the menu until **'8-1 Date'** is displayed. The current setting will also be displayed.

To change the setting press ↵ .

Enter the date in the format 'dd/mm/yy'.

Press ↵ to save and exit, or

Press ESC to exit without saving.

Time

Scroll through the menu until **'8-2 Time'** is displayed. The current setting will also be displayed.

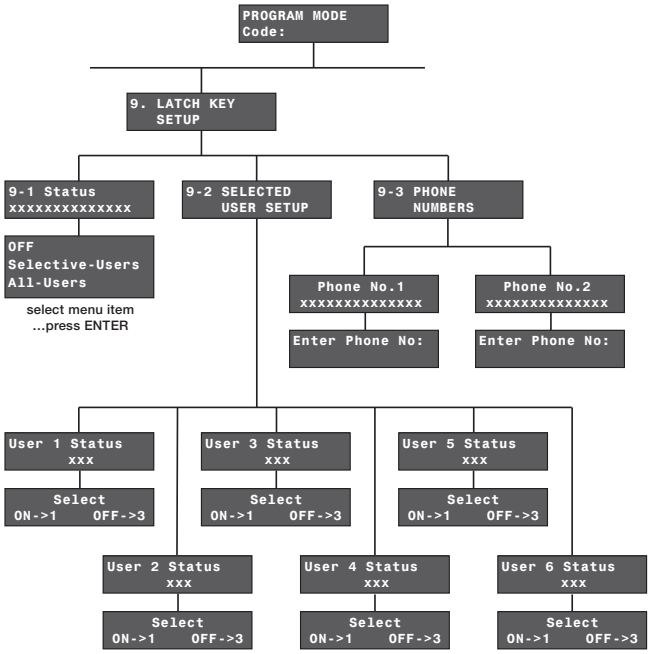
To change the setting press [↵] .

Enter the time in the format 'hh:mm:ss'.

Press [↵] to save and exit, or

Press [ESC] to exit without saving.

Latch Key Setup



Scroll through the top level programming menu until **'9. LATCH KEY SETUP'** is displayed and press [↵] .

Note: After completing the Latch Key Setup press to return to the top level programming menu.

Status

This sets the users that the Latch Key facility will operate with. If set to 'Selected-Users' the Latch Key will only operate with those users enabled in section '9-2 Selected User Setup'.

Default Setting: OFF

Scroll through the menu until **'9-1 Status'** is displayed. The current setting will also be displayed.

To change the setting press [↵] .

Scroll through the available options, (Off, Selected-Users and All-Users), until the required setting is displayed.

Press [ESC] to save and exit, or

Press [↵] to exit without saving.

Selected-Users Setup

This allows controls over which users the Latch Key facility operates with when set to 'Selected-Users'.

Default setting: OFF

Scroll through the menu until **'9-2 SELECTED USER SETUP'** is displayed and press [↵] .

Scroll through the menu until the required user number (1-6) to be configured is displayed. The current status will also be displayed.

To change the setting press [↵] .

Press [1] to enable the Latch-Key for the user, or

Press [3] to disable the Latch-Key for the user.

After configuring all Users as required press [ESC] to return to the top Level Latch Key Setup menu.

Telephone Numbers

Scroll through the menu until **'9-3 PHONE NUMBERS'** is displayed and press [↵] .

Scroll through the menu until the required Telephone number (1-2) is displayed. The current setting will also be displayed.

To change the number press [↵] .

Enter the new telephone number (32 digits max).

Press [↵] to save and exit, or

Press [ESC] to exit without saving.

Notes:

Press [🔑] to insert a 3.5 second pause in the dialing sequence.

Press [◄] to move the cursor left.

Press [►] to move the cursor right.

Press [✦] to delete the character under the cursor.

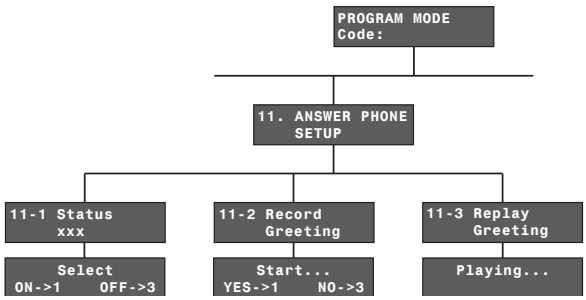
Press and hold [✦] to erase the entire phone number.

After programming all required phone numbers press [ESC] to return to the top level Latch Key Setup menu.

Home Automation Setup

This feature is not available for use in the UK.

Answer Phone Setup



Scroll through the programming menu until **'11. ANSWER PHONE SETUP'** is displayed and press [↵].

Note: After completing the Answer Phone Setup press [ESC] to return to the top level programming menu.

On/Off Status

Default Setting: OFF

Scroll through the menu until **'11-1 Status'** is displayed. The current setting will also be displayed.

To change the setting press [↵].

Press [1] to enable the Answer-Phone, or

Press [3] to disable the Answer-Phone.

Record Greeting

Scroll through the menu until **'11-2 Record Greeting'** is displayed.

To record a new greeting message press [↵].

Press [1] to start the voice recorder, (max duration: 12 seconds). Once completed the recording will automatically be played back, or

Press [3] to exit without changing

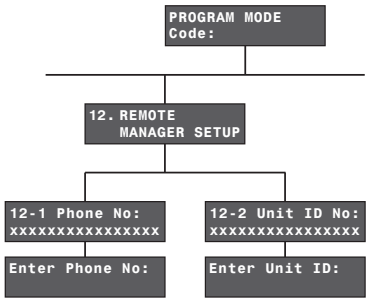
Note: After recording the greeting message, press [ESC] to stop the recorder and cancel any remaining message time.

Replay Greeting

Scroll through the menu until **'11-3 Replay Greeting'** is displayed.

To replay the recorded greeting message press [↵].

Remote Manager Setup



Scroll through the menu until **'12. REMOTE MANAGER SETUP'** is displayed and press [↵].

Note: After completing the Remote Manager setup press [ESC] to return to the top level programming menu.

Telephone Number:

Scroll through the menu until **'12-1 Phone No:'** is displayed. The current setting will also be displayed.

To change the setting press [↵].

Enter the new telephone number (32 digits max).

Press [↵] to save and exit, or

Press [ESC] to exit without saving.

Notes:

Press [🔑] to insert a 3.5 seconds pause in the dialing sequence.

Press [◄] to move the cursor left.

Press [►] to move the cursor right.

Press [▼] to delete the character under the cursor.

Press and hold [▼] to erase the entire phone number.

Unit ID

Scroll through the menu until **'12-2 Unit ID No:'** is displayed. The current setting will also be displayed. To change the setting press [↵].

Enter the System ID Code (8 digits max) obtained from the Service provider. (This is not to be confused with the system house code).

Press [↵] to save and exit, or

Press [ESC] to exit without saving.

Operating Instructions

When leaving the premises, the system should be Armed. However, before doing so, check that all windows are closed and locked, all protected doors are closed and PIR Detectors are not obstructed. Ensure that pets are restricted to areas not protected by PIR Detectors.

The system has three armed modes, ARM and PART-ARM 1 and PART-ARM 2. The Part-Arm modes allow for selected zones to be left in a Disarmed state while the remainder of the system is Armed.

When the system is Armed (in any mode) the Control Panel will display the arming mode and the status of the Latch Key for a few seconds. If enabled, the system Exit-Delay will start and be counted down on the display. As the Exit-Delay expires the Control Panel will beep, with the beep rate increasing in steps as the delay expires. At the end of the Exit-Delay all active zones be Armed. By this time the user must have left the property and closed the final exit door.

If while the system is armed a detector on an active zone is triggered, if enabled, the programmed Entry-Delay for that zone will start and be counted down on the display. As the Entry-Delay expires the Control Panel will beep, with the beep rate increasing in steps as the delay expires. If the system has not been disarmed when the Entry-Delay expires an alarm will occur. If however, the Entry-Delay for the triggered zone has been disabled an alarm will occur immediately.

At the end of the programmed alarm duration the Siren and Control Panel alarms will stop and the system will automatically re-Arm.

Note: The Solar Siren will shut down either after the programmed alarm duration or after 3 minutes, if the 3 minute limit has been enabled on the Solar Siren.

Arming the System

ARM

The system can be set in ARM mode using either the Remote Control or the Control Panel as follows:

Remote Control:

Press the 'ARM' button .

Control Panel:

Press the Arm button followed by the User Access Code and then the Enter button:

User Access Code

PART-ARM 1

The system can be set in PART-ARM 1 mode using either the Remote Control or the Control Panel as follows:

Remote Control:

Press the 'PART-ARM' button .

Control Panel:

Press the Part-Arm button followed by the User Access Code and then the Enter button:

User Access Code

PART-ARM 2

The system can be set in PART-ARM 2 mode using either the Remote Control or the Control Panel as follows:

Remote Control:

Press the 'PART-ARM' button twice .

Control Panel:

Press the Part-Arm button followed by the User Access Code and then the Enter button:

User Access Code

Disarming the System

The system can be disarmed using either the Remote Control or the Control Panel as follows:

Remote Control:

Press the button.

Control Panel:

Press the 'Disarm' key, followed by the current User Access code followed by the 'Enter' button

User Access Code

If the system is disarmed and the 'ALARM MEM' LED is flashing with the panel beeping every few seconds, this indicates that an alarm condition has occurred. Use the Event Log to find out and make a note of where the alarm occurred to assist in tracing the cause of the alarm.

Quick Set

To operate the quick set function and fully arm the system in 5 seconds, overriding the programmed exit delay:-

Press

User Access Code

Omit Zone

To omit a zone from the next armed session:-

Press

User Access Code

Scroll through the menu until the required zone is displayed. The current setting will also be displayed.

To change the setting press .

Press to omit the zone, (i.e. zone omit ON).

Press to re-enable the zone, (i.e. zone omit OFF).

After configuring zones to be ommited as required press to return to Standby mode.

Note: Omitting a zone will only affect the next armed session. When the system is disarmed the omitted zones will be re-enabled ready for the next armed session.

Personal Attack (PA) Alarm

A full Alarm condition can be immediately initiated at any time (whether the system is Armed or Disarmed) in the event of threat or danger by activating a Panic Button on either the Remote Control or the Control Panel.

Remote Control:

Slide the Panic Button on the side of the Remote Control upwards.

Control Panel:

Press and hold the button for approximately 3 seconds.

The alarm will continue either for the alarm duration when the system will automatically reset or until the system is disarmed.

Tamper

If the battery cover of any device is removed or if the Siren or Control Panel are removed from the wall then a Full Alarm condition will be initiated even if the system is Disarmed. The alarm condition will continue either for the alarm duration when the system will automatically reset or until the system is Disarmed. The 'ALARM MEM' LED on the Control Panel will flash and the panel will beep every few seconds to indicate an alarm has occurred.

Note: The Tamper protection facility on the Siren operates independently of the Control Panel. If the Tamper on the Siren is activated this will not be indicated at the Control Panel.

Chime

The Chime facility can only be operated with the system in Standby mode.

Press to toggle the Chime facility between ON and OFF.

Note: If the Chime is ON and the system is then armed the Chime will remain ON after the system is disarmed.

Event-Log

The Event Log will store the last 50 system Arm, disarm, alarm and detector Low Battery events. The Event Log will record the time, date and detail for each event.

If when the system is disarmed the 'ALARM MEM' LED is flashing and the panel beeps every 10 seconds, this indicates that an alarm has occurred. To cancel the LED and stop the beeping you must access the event log.

To access the Event Log, (with the system in Standby):

Press 8 .

The Event-Log will automatically start scrolling through and displaying the event data starting with the most recent event. The data for each event is shown on two screens, each screen will be displayed for 5 seconds before moving on to the next screen and then the next event.

Use the ▲ and ▼ buttons to manually scroll through the event log to the required position as necessary.

Press ESC to return to standby.

Voice Memo

To record a message, (max. duration 30s), at the Control Panel using the Voice Memo facility, proceed as follows:

Press 1

Press ↵ to start recording

While recording, press ESC to stop the recorder and skip the remaining message time.

If there are already 6 messages recorded it will not be possible to record a voice-memo message until a message has been deleted.

The Voice Memo message may be accessed either at the Control Panel (see Replay Messages) or via the Remote System Control facility.

Replay Messages

If the 'MESSAGE' LED is illuminated, this indicates that either a new Answer-Phone or Voice-Memo message has been recorded and has not been read. The recorded messages may be accessed at the Control Panel as follows:

Press 4 , ? ? ? ? , ↵

User Access Code

Messages are replayed in order starting with the most recent. Press ESC to skip to the end of the message.

At the end of each message there will the option of deleting the message just heard.

To delete the message

Press 1 to delete the message

Press 1 to re-confirm and actually delete the message.

Note: Press 3 at either stage to cancel delete and move on to the next message.

After all messages have been replayed the system will automatically return to Standby Mode.

Remote System Control

If the Remote System Control facility is enabled, the control Panel will answer the call after the set number of rings and emit three beeps on the phone line to prompt for a User Access code to be entered using the telephone keypad.

A valid User Access code will be acknowledged with one long beep. An incorrect code will be acknowledged by two short beeps.

If the User Access code is not entered within 30s or is entered incorrectly three times then the Control Panel will automatically hang-up the line.

Note: If the internal Answer-Phone is also enabled and there is space for a new message then the call will be answered with the Answer-Phone greeting message. The User Access code should be entered during the greeting message, otherwise the answer-phone message recorder will be activated.

Use with an External Answer-Phone:

If the Remote System Control is to be used in conjunction with an external Answer-Phone then

1. The internal Answer-Phone must be disabled.
2. The number of 'rings to answer' for the Control Panel must be greater than that of the External Answer-Phone, otherwise the Control Panel will always pickup the call before the Answer-Phone.

To access the Remote System Control facility the Control panel has a 'double dial-in' feature to enable the Control Panel to pick-up the phone call before the external Answer-Phone cuts in. The 'double dial-in' procedure is as follows:

1. Dial up the system and hang up after two rings.
2. Redial up the system within 30s, the system will pickup the phone after 1 ring.
3. Enter the User Access code as normal.

The following functions may be access via the remote. The system will acknowledge each signal with a single long beep.

Press [1] to initiate ARM.

Press [2] to initiate Part-Arm 1.

Press [3] to initiate Part-Arm 2.

Press [4] to Disarm the system.

Press [5] to turn the Siren OFF.

Press [6] to turn the Siren ON.

Press [7] to Listen-In via the Control Panel Microphone.

Press [#] to stop Listen-In

Note: Listen-In will be automatically cancelled after 5 minutes if not cancelled manually.

Press [8] to interrogate the system Status. The status tone will be repeated at 2s intervals for 15 seconds.

One beep	ARM
Two beeps	Part-Arm (1 or 2)
Three beeps	Alarm triggered
One long beep	Disarmed

Press [9] to replay Answer-Phone messages.

While replaying a message, press [#] for 2 seconds to skip to the end of the message and hear the next message.

Press [0] to delete all Answer Phone messages.

Press [#] to end the session and Hang up the Control Panel line.

Battery Monitoring

All system devices continuously monitor their battery condition. The Control Panel also monitors the battery condition of all PIR and Magnetic Detectors. If the battery level of any device drops below acceptable levels then its low battery indication will be activated.

In addition if any PIR or Magnetic Contact Detector has a low battery status it will be indicated on the 'LOW BAT' LED on the Control Panel.

LED Glowing	Magnetic Contact
LED Flashing	PIR

When a low battery indicator is activated the device will continue to operate normally for up to 2 weeks (depending on system use). However, the battery for that device should be replaced as soon as possible.

Note: Before removing the battery cover on any device to replace the battery, ensure that the system is put into Test mode to avoid initiating a Full Alarm condition.

The low battery indication for each system component is as follows:

Remote Control:

When the Remote Control is operated under low battery conditions the transmit LED will continue to flash after the button has been released.

Under normal battery conditions the LED will extinguish when the button is released.

PIR Movement Detector:

Under low battery conditions the LED behind the Detector lens will flash when movement is detected to indicate that the battery needs to be replaced.

Under normal battery conditions the LED does not illuminate unless the PIR Detector is in Walk Test mode.

Magnetic Contact Detector:

Under low battery conditions, when the Detector is activated, the transmit LED will be illuminated for approximately 1 second as the door/window is opened.

Under normal battery conditions the LED will not illuminate as the Detector is operated, (unless the Detector is in Test Mode with the battery cover removed).

Maintenance

Your Alarm System requires very little maintenance. However, a few simple tasks will ensure its continued reliability and operation.

Solar Siren

1. It is recommended that the Solar Panel on the top of the siren housing should be cleaned at least twice a year, preferably in the Spring and Autumn, using a soft damp cloth. Do not use abrasive, solvent based or aerosol cleaners. Do not attempt to clean inside the unit or allow water to enter the unit.

   This will ensure that the Solar Panel does not become affected by the build up of excessive dirt and receives all the available light.

2. The Solar Siren should not be left for long periods with the batteries connected, unless the unit is able to receive sufficient light to maintain the battery charge. Failure to maintain charge to the unit will result in the rechargeable battery running unacceptably low. Should this occur, the unit must be recharged from a 7.5Vdc/100mA supply (e.g. from a mains adaptor power supply). When re-powering the Solar Siren fit a new 9V PP3 leak proof Alkaline power-up battery to ensure that the Unit receives sufficient power until the solar panel can recharge the main battery.

3. The main rechargeable battery has a typical life of 3-4 years and needs no maintenance during this period, provided the battery is kept charged. The battery will be damaged if it is stored in a discharged state for long periods.

Control Panel

The rechargeable batteries have a typical life of 3-4 years and need no maintenance during this period, provided they are kept charged. The batteries will be damaged if they are stored in a discharged state for long periods.

Detectors And Remote Control

The Detectors require very little maintenance. The batteries should be replaced once a year or when a low battery status is indicated.

IMPORTANT: Should you, for any reason, have to completely power-down the system (e.g. to move the system to a new premises) first put the system into Test mode before removing the Control Panel cover and disconnecting the power supply and backup batteries. To power-down the Solar Siren undo the fixing screw on the bottom edge and remove the front cover. As the cover is removed the Siren's Tamper switch will activate, immediately cancel the alarm using the Remote Control. Disconnect both the rechargeable battery and initial power-up battery and ensure that the solar panel is covered with a light proof material to prevent it being energised.

Batteries

Before removing the battery cover on any device to replace the battery, ensure that the system is put into Test mode to avoid initiating an Alarm.

The specifications for replacement batteries are as follows:

Remote Controls	1 x 3V CR2032 Lithium Cells (or equivalent)
Magnetic Contact Detectors	2 x 3V CR2032 Lithium Cells (or equivalent)
PIR Movement Detectors	1 x 9V PP3 Alkaline

Note: Where applicable only fit PP3 Alkaline type batteries. Rechargeable batteries should NOT be fitted.

Disposal and Recycling

Disposal of this product is covered by the Waste Electrical or Electronic Equipment (WEEE) Directive.

It should not be disposed of with other household or commercial waste.

At the end of its useful life the packaging and product should be disposed of via a suitable recycling centre. Please contact your local authority or the retailer from where the product was purchased for information on available facilities.

DO NOT BURN.

The Rechargeable Batteries contain Sulphuric Acid – **DO NOT ATTEMPT TO OPEN THE CASING.**

Alarm Record

Complete the following information during installation for future reference when adding to your system and to assist Trouble Shooting Zone Settings.

			Zone Settings						
Zone	Detector Type(s)	Location	Type	Final Exit /Walk - Through	Entry Delay	Chime	Arm	Part-Arm 1	Part-Arm 2
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

You may make a note of your User Access Codes and Installer Access Code below.

System Access Codes

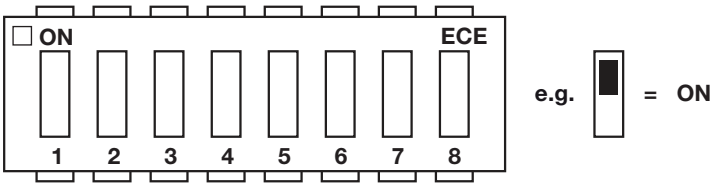
User 1: ---------- User 2: ---------- User 3: ----------

User 4: ---------- User 5: ---------- User 6: ----------

Master User: ----------

System House Code

Use the diagram to record your House Code.



Voice Dialler Phone Numbers

Phone No. 1: ---------- Phone No. 2: ----------

Phone No. 3: ---------- Phone No. 4: ----------

Latch-Key Phone Numbers

Phone No. 1: ---------- Phone No. 2: ----------

Remote Security Manager Service

Phone No.: ---------- System ID No.: ----------

This information is confidential and should be kept in a safe location.

Troubleshooting

Symptom / Recommendation

Control Unit not working – Power LED OFF or flashing

1. Mains power failure - check if other electrical circuits are operable.
2. Check that mains adaptor is plugged in and socket is switched ON.
3. Check mains fuse in Plug has not blown.
4. Check that DC jack plug from mains adaptor is connected in Control Panel.
5. Check fuse/MCB in Consumer Unit on the circuit serving the Control Panel.

   Note: Before replacing any fuses or resetting the MCB, the cause of the failure should be investigated and rectified

---

Control Unit not accepting User Access code

1. Pause between key depressions too long. Do not pause for more than 5 seconds between pressing keys.
2. Incorrect code entered.
3. Reset to factory defaults and reprogram system.

Control Unit not responding to detectors

1. Ensure that the 'House Code' is correctly set.
2. Ensure detector is within effective radio range of Control Panel and equipment is not mounted close to metal objects.
3. Detector battery low - replace battery.

Voice-Dialler Not Responding to Alarm

1. Telephone line not connected or faulty - check phone line with another phone
2. Dial Method incorrectly programmed
3. Incorrect phone numbers programmed
4. Phone numbers disabled in dialling sequence
5. Alarm messages not recorded

Answer-Phone not responding or recording messages.

1. Telephone line not connected or faulty - check phone line with another phone.
2. Dial Method incorrectly programmed.
3. Answer-Phone disabled
4. No space in message store, 6 messages already recorded.

Symptom / Recommendation

Cannot record Voice-Memo message at Control Panel.

1. No space in message store, 6 messages already recorded.

Control Unit Not Contacting Remote Manager Service on Alarm

1. Telephone line not connected or faulty - check phone line with another phone.
2. Dial Method incorrectly programmed.
3. Incorrect phone number for Remote Security Manager Service programmed.
4. Incorrect system ID number for Remote Security Manager Service programmed.
5. Remote Security Manager Service not commissioned or signed up.

Control Unit not responding to Remote Phone Access

1. Telephone line not connected or faulty - check phone line with another phone
2. Remote Access disabled.
3. Incorrect User Access Code entered.

Latch Key Not Responding when system Disarmed

1. Telephone line not connected or faulty - check phone line with another phone
2. Dial Method incorrectly programmed
3. Latch-Key disabled
4. Latch Key set to Selected-Users and not enabled for User that is Disarming the system.
5. No Latch-Key phone numbers programmed.

Siren and Strobe operating but no alarm at Control Panel

1. Siren Tamper switch activated. Check security of Siren fixing to wall and adjustment of anti-tamper switch to ensure switch is fully depressed.
2. Siren Jamming detection circuit operated, (jamming detection at Control Panel disabled).
3. Hardwired Siren disabled.

Symptom / Recommendation

Siren not responding to Control Panel

1. Ensure that the 'House Code' is correctly set.
2. Ensure main Siren configuration switch is set to SIREN.
3. Incorrect User Access code being entered at Control Panel.
4. Ensure Siren is within effective radio range of Control Panel and equipment is not mounted close to metal objects.
5. Siren rechargeable battery discharged
   a. Clean Solar Panel
   b. Check age of rechargeable battery – replace if at end of useful life.
   c. Fit new initial power-up battery and re-power up siren.

Full Alarm Condition occurs when system has not been triggered by an intruder or is disarmed

1. Tamper switch activation
   - check all detector battery covers to ensure correctly fitted
   - check Control Panel and Siren are securely mounted mounted to the wall and tamper switch is closed.
2. Personal Attack Alarm operated from a Remote Control or Keypad
3. Jamming detection circuit operated

LED on Remote Control not illuminating, or is dim when unit is operated

1. Ensure battery is connected with correct polarity.
2. Ensure battery connections are good.
3. Replace battery.

PIR Movement Detector false alarming

1. Ensure that the detector is not pointing at a source of heat or a moving object.
2. Ensure that the detector is not mounted above a radiator or heater.
3. Ensure that the detector is not facing a window or in direct sunlight.
4. Ensure that the detector is not in a draughty area.
5. Pulse count set too low – reset to two pulse detection.

Symptom / Recommendation

PIR Movement Detector not detecting a person's movement

1. Check battery connections are good.
2. Pulse count set too high - reset to one pulse detection.
3. Check that the detector is correctly set up. (See setting the PIR Movement Detectors page 7).
4. Ensure DIP switches 1-4 of SW3 are correctly set.
5. Ensure that detector is mounted the correct way up, (i.e. with detection window at the bottom).
6. Ensure that the detector is mounted at the correct height, (i.e. 2-2.5m).
7. Allow up to three minutes for detector to stabilise.

PIR Movement Detector LED flashes on detection of movement, (device in normal operation mode)

1. Low battery - replace battery.

Magnetic Contact Detector not working

1. Ensure batteries are connected with correct polarity.
2. Ensure battery connections are good.
3. Ensure 'House Code' is correctly set.
4. Ensure DIP switches 9, 10 and 11 are set correctly.
5. If no external contacts are connected ensure jumper link fitted
6. If external contacts are connected
   a. Ensure jumper link removed
   b. Check that all contacts are closed
   c. Check all contacts are wired in series.

Magnetic Contact Detector false alarming

1. Ensure that gap between magnet and detector is less than 10mm.
2. Tamper switch below battery cover not depressed - check battery cover is fitted correctly and that fixing lugs are not broken.

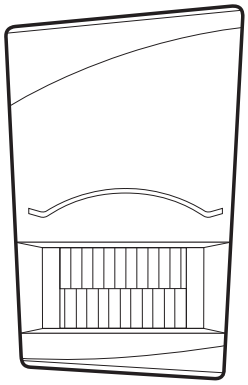
LED on Magnetic Contact Detector illuminating when door or window is opened

1. Low battery - replace Batteries.

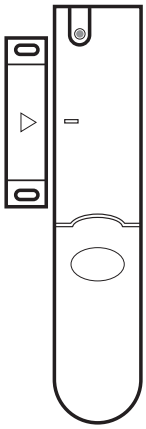
Extending your Alarm System

Your system may be extended to provide additional protection by adding further PIR Movement Detectors, Magnetic Contact Detectors and Remote Control Units.

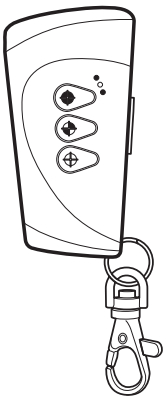
Accessories



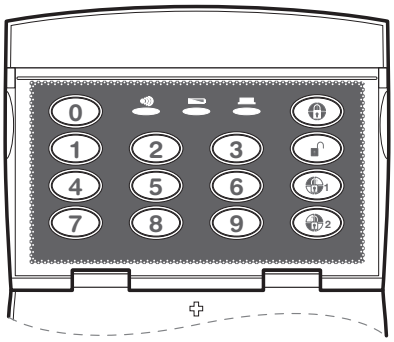
433MHz
Wirefree Passive Infra-Red Movement Detector
SAP E



433MHz
Wirefree Magnetic Contact Detector
SAM E



433MHz
Wirefree Remote Control
SAR E



433MHz
Wirefree Remote Keypad
SAKP E

Guarantee

The product is guaranteed for one year from the date of purchase against faulty materials and workmanship. No liability can be accepted for any problems caused by fair wear and tear, buyer's negligence, improper fitting or use, wilful or accidental damage, or any consequential loss or damage howsoever caused. This guarantee does not affect your statutory rights and is valid for UK and EIRE only.

If you believe the product to be faulty or in the unlikely event of the product developing a fault during the warranty period, then please contact our Customer Support Team on 0845 373 1353 for product assistance. Product repair or replacement will be offered for faulty products only with our prior agreement. Should you need to return a products then:

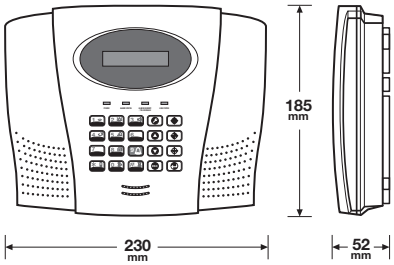
1. Contact the Help Line on the number above to obtain a Return Authorisation Number.
2. Adequately package your product to prevent damage in transit and include the following:
   a. A copy of your original invoice/receipt.
   b. A covering letter giving your full contact details, including email address (if applicable).
   c. A description of the fault or problem.

Research and Development

Our R & D Department is constantly developing new products. We practice a policy of continued improvement and reserve the right to change specifications without prior notice.

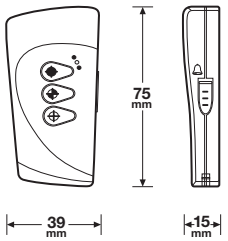
Component Specification

Control Panel



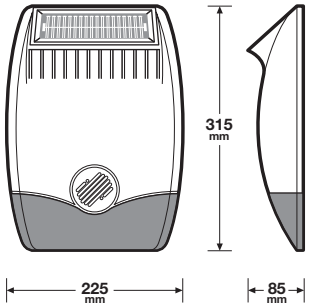
- RF operating frequency: 433MHz
- Range: 50m max.
- RF Jamming Detection
- 6 Users + Master User
- 6 Wirefree Zones + 4 Wired zones
- Independently programmable Entry and Exit delays.
- Omit Zones
- Quick Set and Final Exit Set
- Walk Through Zones
- Telephone Voice Dialler
- Zone lockout
- Chime
- Event Log
- Answer Phone
- Voice-Memo
- Latch Key
- Remote System Access via Telephone
- Listen-In facility.
- Remote Security Manager interface
- Front & Rear Anti-Tamper protection
- Personal Attack (PA) facility

Remote Control



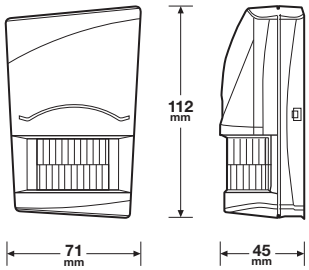
- RF operating frequency: 433MHz
- Range: Up to 100 metres
- Personal Attack (PA) switch
- Operates all ARM, PART-ARM and DISARM functions
- Transmission indicator
- Typical Battery life > 1 year
- Low battery indicator

External Solar Siren



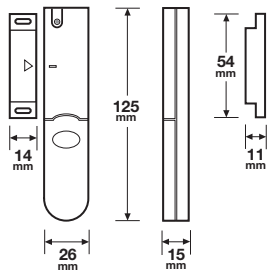
- RF operating frequency: 433MHz
- Sealed lead acid battery 6V/1.2Ahr
- Solar Panel 7.5V - Charge Rate typically 60mA
- Operation time in complete darkness – up to 25 days
- 95dB Piezo Siren
- 3 minute alarm duration limiter (optional)
- Auto reset
- Siren Disable (selectable)
- Dual front and rear anti-tamper protection
- Jamming Detection
- Audible confirmation

Passive Infra-Red Movement Detector



- RF operating frequency: 433MHz
- Range: Up to 100 metres
- Detection range: up to 12m at 110°
- Walk test facility
- High/Low movement sensitivity settings
- Anti-Tamper protected
- Corner or surface mount
- Typical Battery Life > 1 year
- Low Battery Indicator

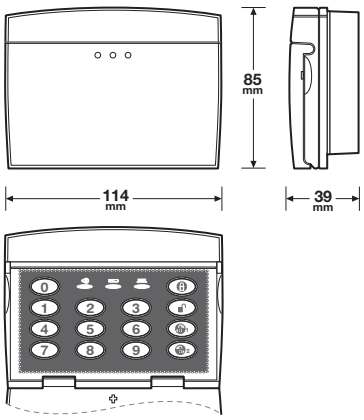
Magnetic Contact Detector



- RF operating frequency: 433MHz
- Range: Up to 100 metres
- Test Mode
- Anti-Tamper protection
- Facility to add external wired Magnetic Contact Detector or Personal Attack buttons
- Typical Battery Life >1 year
- Low Battery Indicator

Wirefree Remote Keypad

(optional accessory)



- RF operating frequency: 433MHz
- Range: Up to 100 metres
- Changeable 4 digit User Access code.
- Anti-Tamper protected
- Personal Attack (PA) facility
- Typical Battery Life > 1 year
- Low Battery Indicator

Note: Product images are for illustration purposes only. Actual design/appearance may vary however the Technical Specification will be as stated.

Customer Support Helpline: 0845 373 1353

(Local Call Rate - lines open 09.00 to 17.00 Monday to Friday)

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